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CHAPTER 1: INTRODUCTION

1.1 BEFORE YOU START

Thank you for choosing our product. Before you start installing the motherboard, please make sure you follow the instructions below:

- Prepare a dry and stable working environment with sufficient lighting.
- Always disconnect the computer from power outlet before operation.
- Before you take the motherboard out from anti-static bag, ground yourself properly by touching any safely grounded appliance, or use grounded wrist strap to remove the static charge.
- Avoid touching the components on motherboard or the rear side of the board unless necessary. Hold the board on the edge, do not try to bend or flex the board.
- Do not leave any unfastened small parts inside the case after installation. Loose parts will cause short circuits which may damage the equipment.
- Keep the computer from dangerous area, such as heat source, humid air and water
- The operating temperatures of the computer should be 0 to 45 degrees Celsius.

1.2 PACKAGE CHECKLIST

- ✚ IDE Cable X 1
- ✚ Serial ATA Cable X 2
- ✚ Serial ATA Power Cable X 1
- ✚ Rear I/O Panel for ATX Case X 1
- ✚ User's Manual X 1
- ✚ Fully Setup Driver CD X 1
- ✚ FDD Cable X 1 (optional)
- ✚ USB 2.0 Cable X1 (optional)
- ✚ S/PDIF out Cable X 1 (optional)
- ✚ DVI to HDMI Dongle X 1 (optional)

Note: The package contents may be different due to area or your motherboard version.

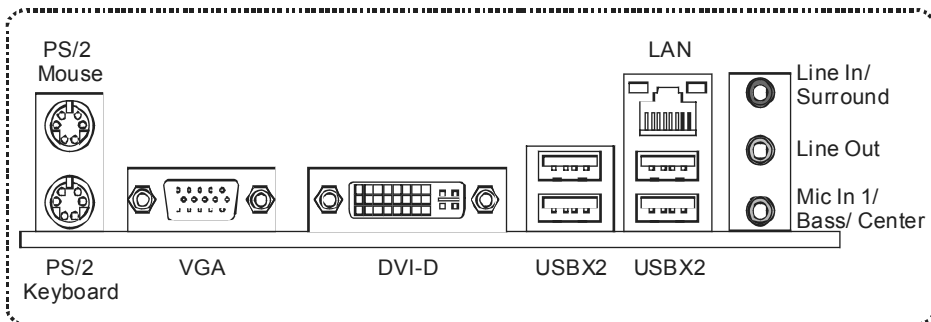
1.3 MOTHERBOARD FEATURES

	TA780G3/TA760G3	TA785G3
CPU	Socket AM3 AMD Athlon II / Phenom II processors AMD 64 Architecture enables 32 and 64 bit computing Supports Hyper Transport 3.0 and Cool'n'Quiet (Maximum Watt: 125W)	Socket AM3 AMD Athlon II / Phenom II processors AMD 64 Architecture enables 32 and 64 bit computing Supports Hyper Transport 3.0 and Cool'n'Quiet (Maximum Watt: 125W)
FSB	Support HyperTransport 3.0 Supports up to 5.2 GT/s Bandwidth	Support HyperTransport 3.0 Supports up to 4.4 GT/s Bandwidth
Chipset	AMD 780G / 760G AMD SB710	AMD 785G AMD SB710
Super I/O	ITE 8718F Provides the most commonly used legacy Super I/O functionality Low Pin Count Interface Environment Control initiatives H/W Monitor ITE's "Smart Guardian" function	ITE 8718F Provides the most commonly used legacy Super I/O functionality Low Pin Count Interface Environment Control initiatives H/W Monitor ITE's "Smart Guardian" function
Main Memory	DDR3 DIMM Slots x 2 Max Memory Capacity 8GB Each DIMM supports 512MB/1GB/2GB/4GB DDR3 Dual Channel Mode DDR3 memory module Supports DDR3 800 / 1066 / 1333 Supports DDR3 1600 (OC) Registered DIMM and ECC DIMM is not supported	DDR3 DIMM Slots x 2 Max Memory Capacity 8GB Each DIMM supports 512MB/1GB/2GB/4GB DDR3 Dual Channel Mode DDR3 memory module Supports DDR3 800 / 1066 / 1333 Supports DDR3 1600 (OC) Registered DIMM and ECC DIMM is not supported
Graphics	Integrated in AMD 780G / 760G Chipset Max Shared Video Memory is 512MB DX10/HDCP (780G ONLY) support	Integrated in AMD 785G Chipset Max Shared Video Memory is 512MB DX10.1/HDCP support
IDE	Integrated IDE Controller Ultra DMA 33 / 66 / 100 / 133 Bus Master Mode supports PIO Mode 0~4,	Integrated IDE Controller Ultra DMA 33 / 66 / 100 / 133 Bus Master Mode supports PIO Mode 0~4,
SATA II	Integrated Serial ATA Controller Data transfer rates up to 3 Gb/s SATA Version 2.0 specification compliant	Integrated Serial ATA Controller Data transfer rates up to 3 Gb/s SATA Version 2.0 specification compliant
LAN	Realtek RTL 8111DL 10 / 100 /1000 Mb/s auto negotiation Half / Full duplex capability	Realtek RTL 8111DL 10 / 100 /1000 Mb/s auto negotiation Half / Full duplex capability
Sound	ALC662 5.1 channels audio out High Definition Audio	ALC662 5.1 channels audio out High Definition Audio

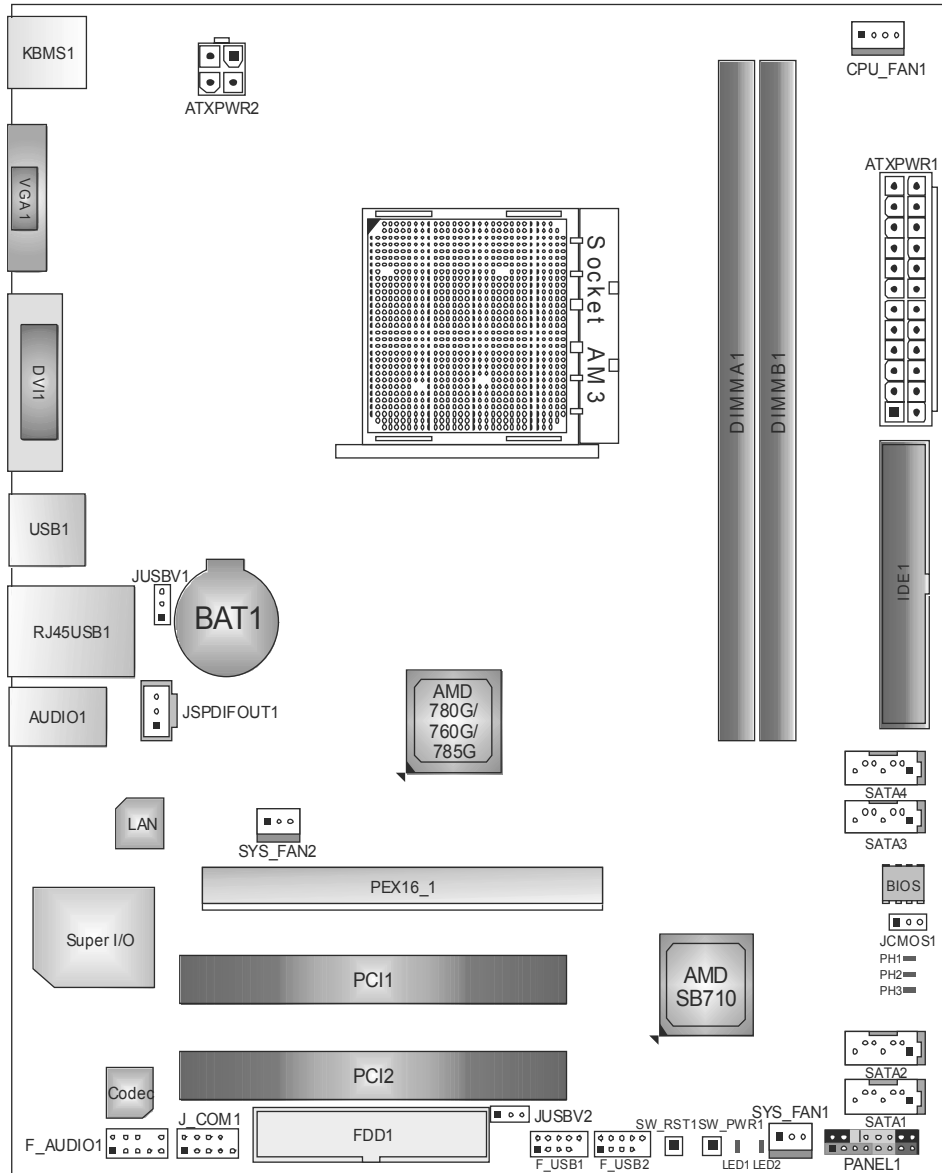
TA785G3/TA780G3/TA760G3

	TA780G3/TA760G3		TA785G3	
Slots	PCI Express Gen2 x16 slot	x1	PCI Express Gen2 x16 slot	x1
	PCI slot	x2	PCI slot	x2
On Board Connector	Floppy Connector	x1	Floppy Connector	x1
	IDE Connector	x1	IDE Connector	x1
	SATA Connector	x4	SATA Connector	x4
	Front Panel Connector	x1	Front Panel Connector	x1
	Front Audio Connector	x1	Front Audio Connector	x1
	S/PDIF Out Connector	x1	S/PDIF Out Connector	x1
	CPU Fan Header	x1	CPU Fan Header	x1
	System Fan Header	x2	System Fan Header	x2
	CMOS clear Header	x1	CMOS clear Header	x1
	USB Connector	x2	USB Connector	x2
	Power Connector (24pin)	x1	Power Connector (24pin)	x1
	Power Connector (4pin)	x1	Power Connector (4pin)	x1
	Serial port Connector	x1	Serial port Connector	x1
Back Panel I/O	PS/2 Keyboard	x1	PS/2 Keyboard	x1
	PS/2 Mouse	x1	PS/2 Mouse	x1
	DVI port	x1	DVI port	x1
	VGA port	x1	VGA port	x1
	LAN port	x1	LAN port	x1
	USB Port	x4	USB Port	x4
	Audio Jack	x3	Audio Jack	x3
Board Size	209 mm(W) x 244 mm(L)		209 mm(W) x 244 mm(L)	
Special Features	RAID 0 / 1 / 1+0 support		RAID 0 / 1 / 1+0 support	
OS Support	Windows XP / Vista 32 / Vista 64 / 7 Biostar reserves the right to add or remove support for any OS With or without notice.		Windows XP / Vista 32 / Vista 64 / 7 Biostar reserves the right to add or remove support for any OS With or without notice.	

1.4 REAR PANEL CONNECTORS



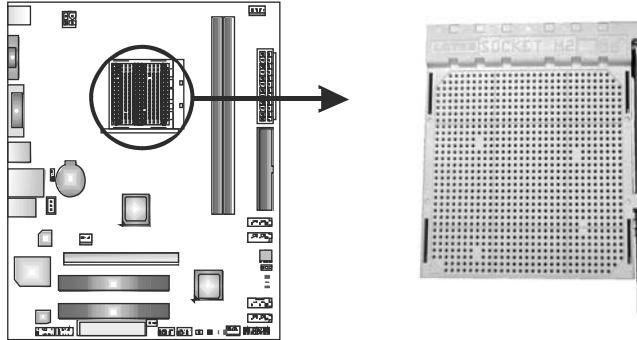
1.5 MOTHERBOARD LAYOUT



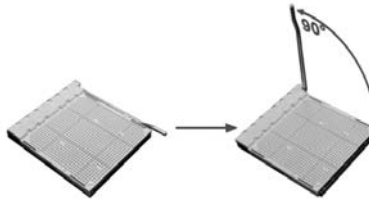
Note: ■ represents the 1st pin.

CHAPTER 2: HARDWARE INSTALLATION

2.1 INSTALLING CENTRAL PROCESSING UNIT (CPU)



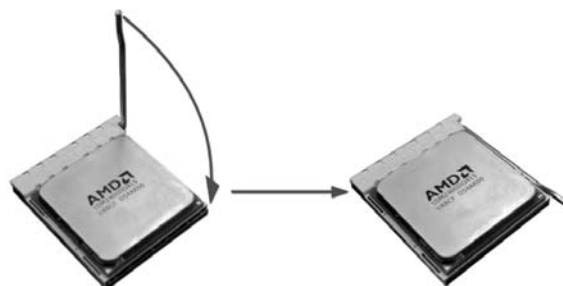
Step 1: Pull the lever toward direction A from the socket and then raise the lever up to a 90-degree angle.



Step 2: Look for the white triangle on socket, and the gold triangle on CPU should point towards this white triangle. The CPU will fit only in the correct orientation.



Step 3: Hold the CPU down firmly, and then close the lever toward direct B to complete the installation.

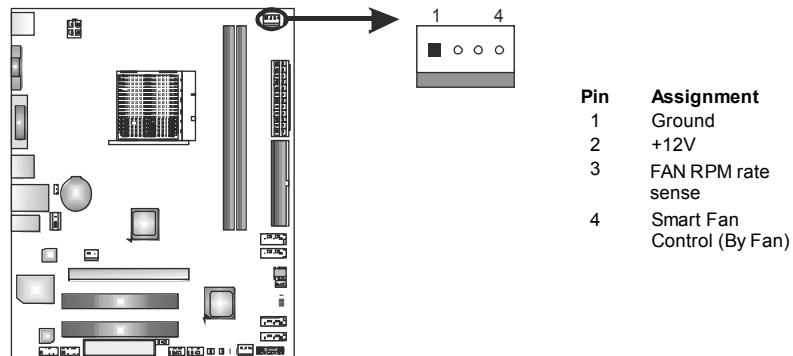


Step 4: Put the CPU Fan on the CPU and buckle it. Connect the CPU FAN power cable to CPU_FAN1 to complete the installation.

2.2 FAN HEADERS

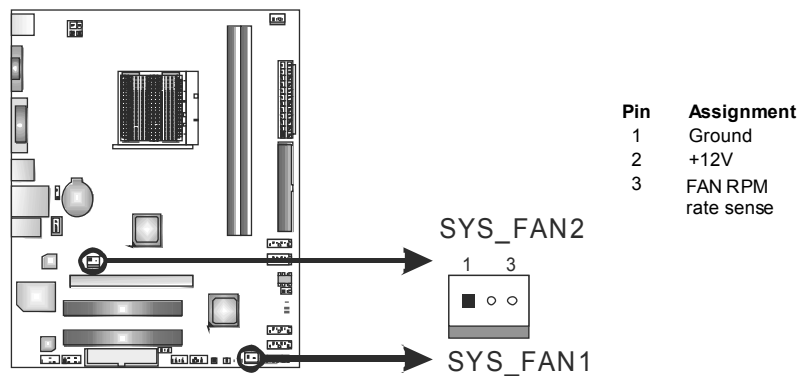
These fan headers support cooling-fans built in the computer. The fan cable and connector may be different according to the fan manufacturer. Connect the fan cable to the connector while matching the black wire to pin#1.

CPU_FAN1: CPU Fan Header



SYS_FAN1: NorthBridge Fan Header

SYS_FAN2: System Fan Header

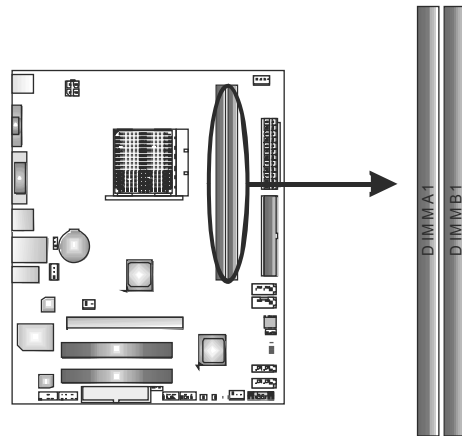


Note:

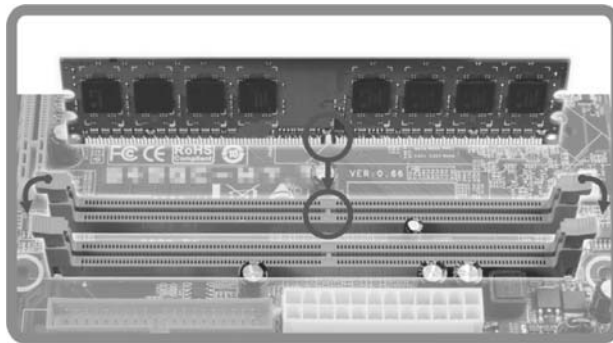
CPU_FAN1, SYS_FAN1/2 support 4-pin and 3-pin head connectors. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to pin#2, and the black wire is Ground and should be connected to GND.

2.3 INSTALLING SYSTEM MEMORY

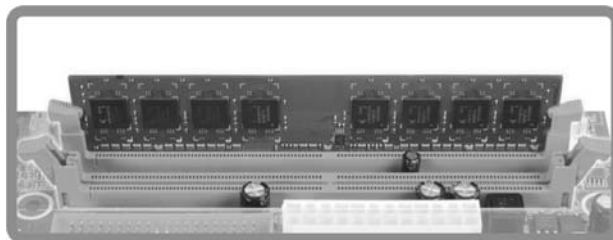
A. DDR3 Modules



1. Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the Slot.



2. Insert the DIMM vertically and firmly into the slot until the retaining chip snap back in place and the DIMM is properly seated.



B. Memory Capacity

DIMM Socket Location	DDR3 Module	Total Memory Size
DIMMA1	512MB/1GB/2GB/4GB	Max is 8GB.
DIMMB1	512MB/1GB/2GB/4GB	

C. Dual Channel Memory installation

Please refer to the following requirements to activate Dual Channel function:

Install memory module of the same density in pairs, shown in the table.

Dual Channel Status	DIMMA1	DIMMB1
Disabled	O	X
Disabled	X	O
Enabled	O	O

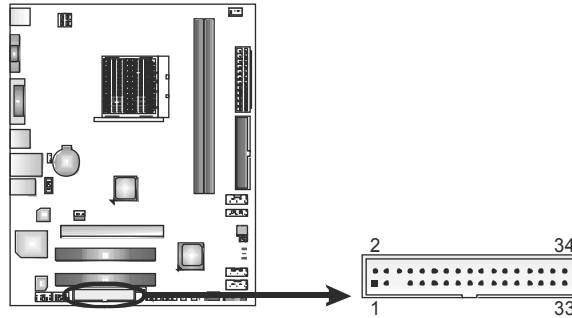
(O means memory installed, X means memory not installed.)

The DRAM bus width of the memory module must be the same (x8 or x16)

2.4 CONNECTORS AND SLOTS

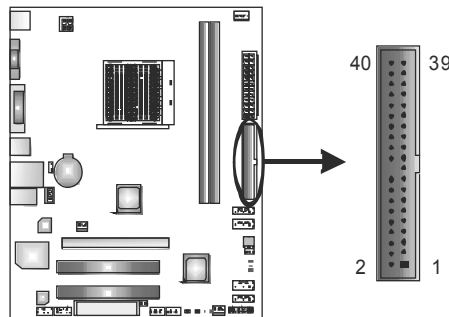
FDD1: Floppy Disk Connector

The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types.



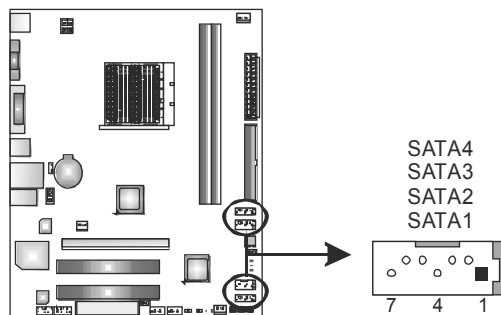
IDE1: IDE/ATAPI Connector

The motherboard has a 32-bit Enhanced IDE Controller that provides PIO Mode 0~4, Bus Master, and Ultra DMA 33/66/100/133 functionality.



SATA1~SATA4: Serial ATA Connectors

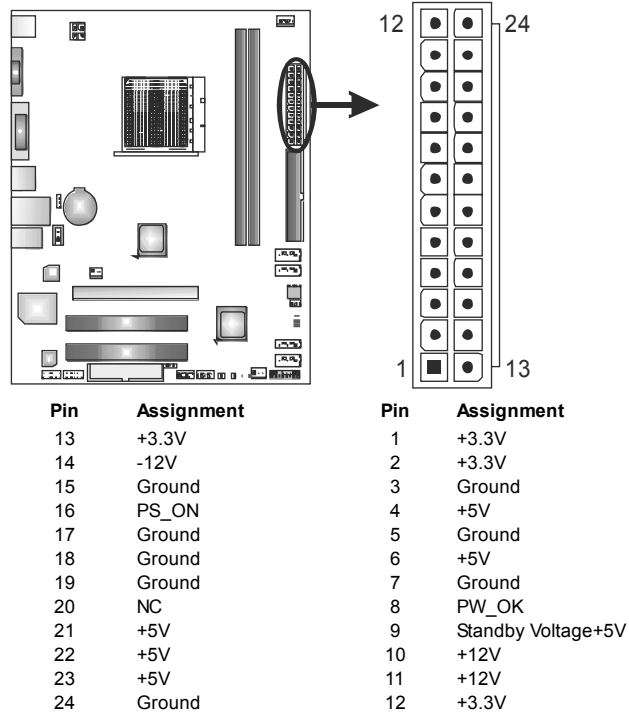
The motherboard has a PCI to SATA Controller with 4 channels SATA interface, it satisfies the SATA 2.0 spec and with transfer rate of 3.0Gb/s.



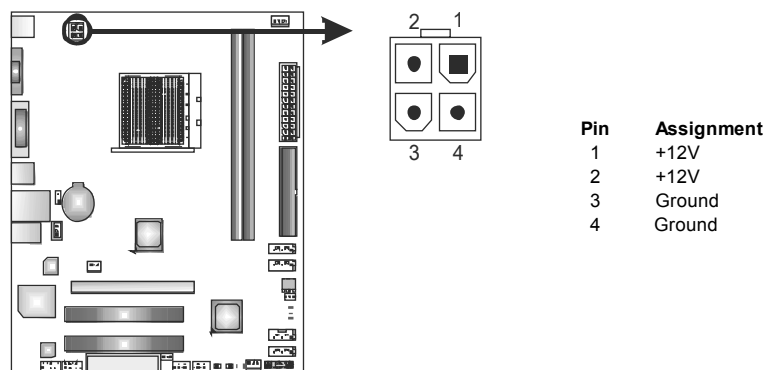
Pin	Assignment
1	Ground
2	TX+
3	TX-
4	Ground
5	RX-
6	RX+
7	Ground

ATXPWR1: ATX Power Source Connector

This connector allows user to connect 24-pin power connector on the ATX power supply.

**ATXPWR2: ATX Power Source Connector**

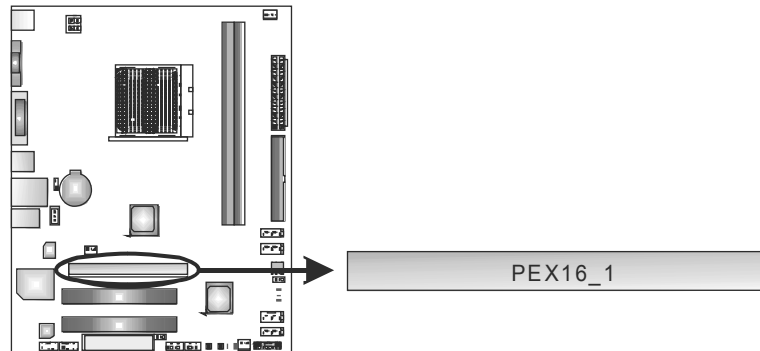
Connecting this connector will provide +12V to CPU power circuit.

**Note:**

Before power on the system, please make sure that both ATXPWR1 and ATXPWR2 connectors have been plugged-in.

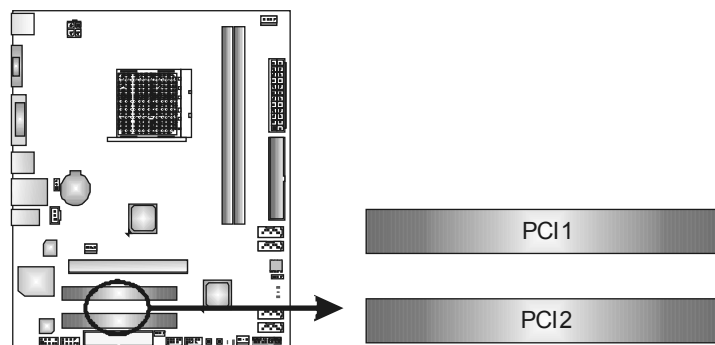
PEX16_1: PCI-Express Gen2 x16 Slot

- PCI-Express 2.0 compliant.
- Maximum theoretical realized bandwidth of 8GB/s simultaneously per direction, for an aggregate of 16GB/s totally.
- PCI-Express Gen2 supports a raw bit-rate of 5.0Gb/s on the data pins.
- 2X bandwidth over the PCI-Express 1.1 architecture.



PCI1/PCI2: Peripheral Component Interconnect Slots

This motherboard is equipped with 2 standard PCI slots. PCI stands for Peripheral Component Interconnect, and it is a bus standard for expansion cards. This PCI slot is designated as 32 bits.



CHAPTER 3: HEADERS & JUMPERS SETUP

3.1 HOW TO SETUP JUMPERS

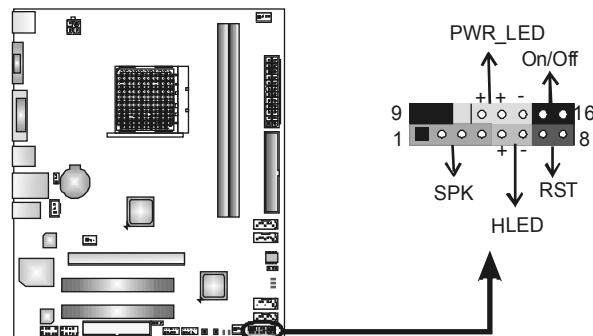
The illustration shows how to set up jumpers. When the jumper cap is placed on pins, the jumper is “close”, if not, that means the jumper is “open”.



3.2 DETAIL SETTINGS

PANEL1: Front Panel Header

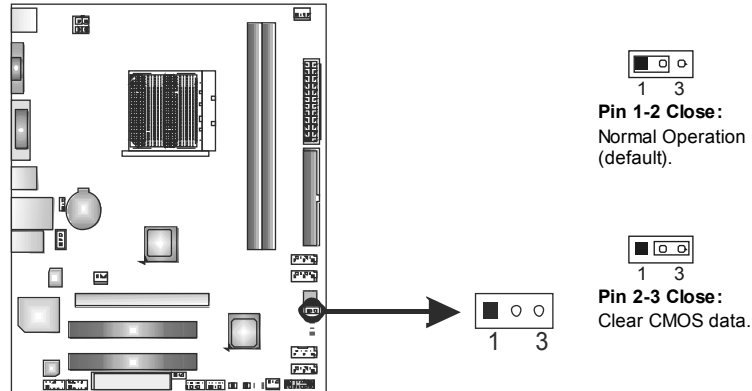
This 16-pin connector includes Power-on, Reset, HDD LED, Power LED, and speaker connection. It allows user to connect the PC case's front panel switch functions.



Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	9	N/A	N/A
2	N/A		10	N/A	
3	N/A		11	N/A	
4	Speaker	Hard drive LED	12	Power LED (+)	Power LED
5	HDD LED (+)		13	Power LED (+)	
6	HDD LED (-)		14	Power LED (-)	
7	Ground	Reset button	15	Power button	Power-on button
8	Reset control		16	Ground	

JCMOS1: Clear CMOS Header

Placing the jumper on pin2-3 allows user to restore the BIOS safe setting and the CMOS data. Please carefully follow the procedures to avoid damaging the motherboard.

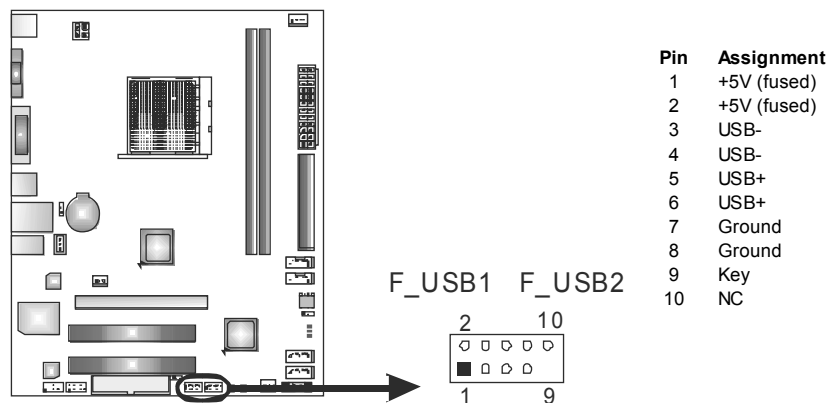


※ Clear CMOS Procedures:

1. Remove AC power line.
2. Set the jumper to "Pin 2-3 close".
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 close".
5. Power on the AC.
6. Reset your desired password or clear the CMOS data.

F_USB1/F_USB2: Headers for USB 2.0 Ports at Front Panel

These headers allow user to connect additional USB cable on the PC front panel, and also can be connected with internal USB devices, like USB card reader.



JUSBV1/JUSBV2: Power Source Headers for USB Ports

Pin 1-2 Close:

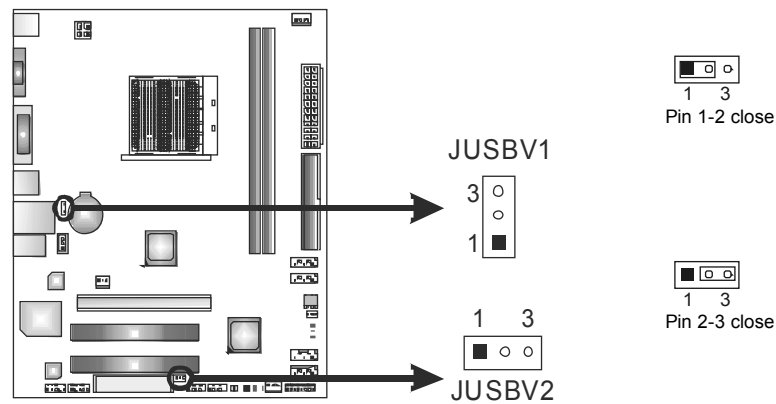
JUSBV1: +5V for USB ports at USB1/RJ45USB1.

JUSBV2: +5V for USB ports at F_USB1/F_USB2.

Pin 2-3 Close:

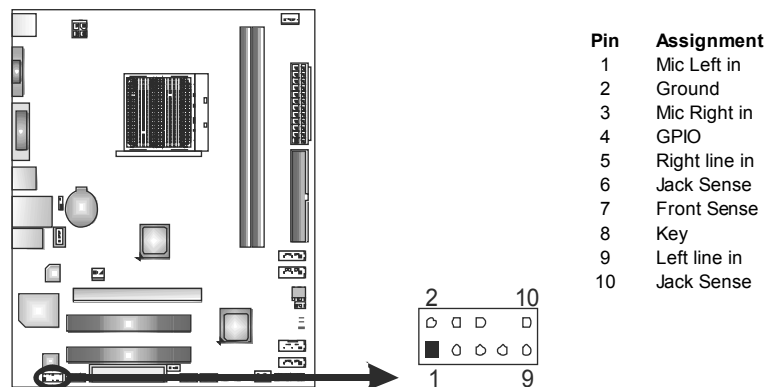
JUSBV1: +5V STB for USB ports at USB1/RJ45USB1.

JUSBV2: +5V STB for USB ports at F_USB1/F_USB2.



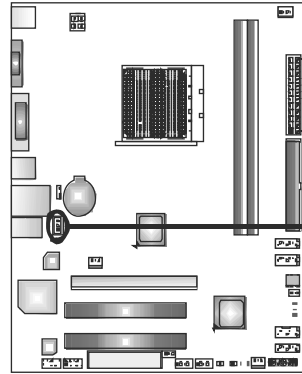
F_AUDIO1: Front Panel Audio Header

This header allows user to connect the front audio output cable with the PC front panel. This header allows only HD audio front panel connector; AC'97 connector is not acceptable.

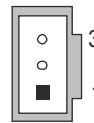


JSPDIFOUT1: Digital Audio-out Connector

This connector allows user to connect the PCI bracket SPDIF output header.

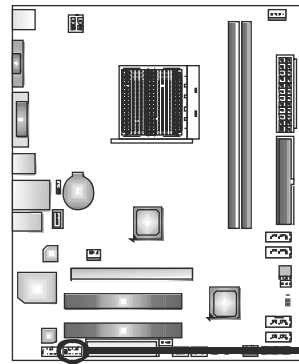


Pin	Assignment
1	+5V
2	SPDIF_OUT
3	Ground

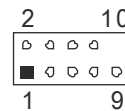


J_COM1: Serial Port Connector

The motherboard has a Serial Port Connector for connecting RS-232 Port.

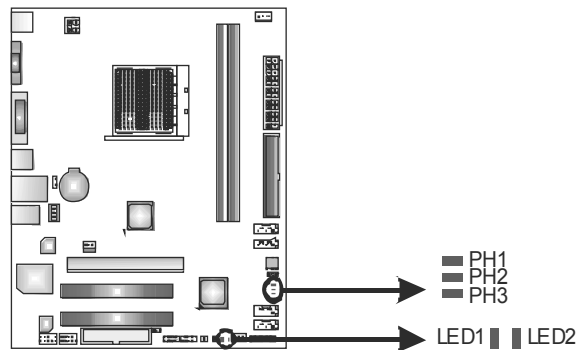


Pin	Assignment
1	Carrier detect
2	Received data
3	Transmitted data
4	Data terminal ready
5	Signal ground
6	Data set ready
7	Request to send
8	Clear to send
9	Ring indicator
10	NC



On-Board LED Indicators

There are 6 LED indicators showing system status.



LED1 & LED2: Debug Indicators

PH1 ~ PH4: Power Status Indicators

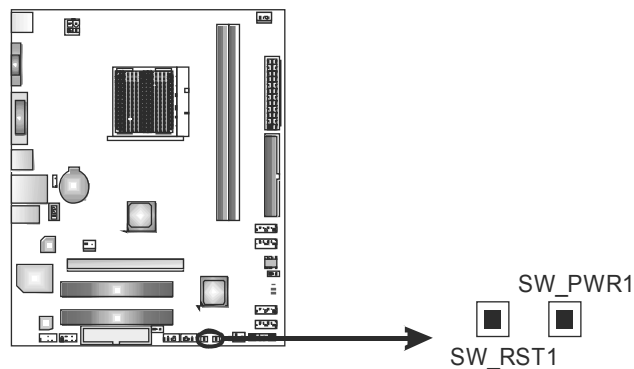
Please refer to the tables below for specific messages:

LED1	LED2	Message
ON	ON	Normal
ON	OFF	Memory Error
OFF	ON	VGA Error
OFF	OFF	Abnormal: CPU / Chipset error.

PH1~PH3	Phase Indicator
ON	Phase Active
OFF	Phase Disable

On-Board Buttons

There are 2 on-board buttons.



SW_RST1: Reset button.

SW_PWR1: Power Switch button.

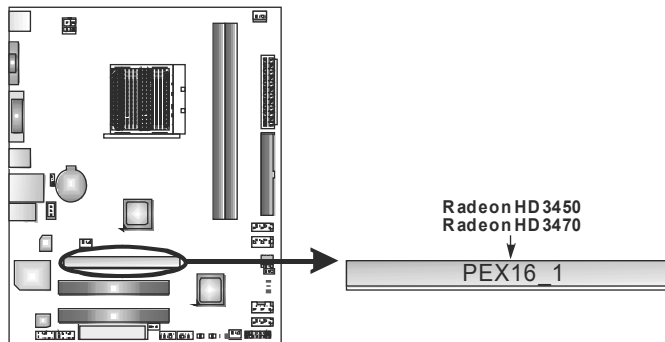
CHAPTER 4: HYBRID CROSSFIREX FUNCTION

4.1 HYBRID CROSSFIREX REQUIREMENTS

- Only **Windows Vista** supports Hybrid CrossFireX function.
- A graphics card with **Radeon HD3450/HD3470** GPU.
- The graphics card driver should support Hybrid CrossFireX technology.
- The power supply unit must provide at least the minimum power required by the system, or the system will be unstable. A power supply above 450W is recommended under Hybrid CrossFireX mode.

4.2 HYBRID CROSSFIREX INSTALLATION

Step 1: Insert the Hybrid CrossFireX-Ready graphics card into PEX16_1.



Notice: Make sure the graphics card is seated into slot completely.

Step 2: In the graphics card configuration program, choose "Hybrid CrossFireX" function. Installation completes.

NOTE

For more detail information of Hybrid CrossFireX function, please visit following web-sites:

http://game.amd.com/us-en/crossfirex_hybrid.aspx

<http://ati.amd.com/technology/hybridgraphics/index.html>

CHAPTER 5: RAID FUNCTIONS

5.1 OPERATING SYSTEM

Supports Windows XP and Windows VISTA.

5.2 RAID ARRAYS

RAID supports the following types of RAID arrays:

RAID 0: RAID 0 defines a disk striping scheme that improves disk read and write times for many applications.

RAID 1: RAID 1 defines techniques for mirroring data.

RAID 1+0: RAID 1+0 combines the techniques used in RAID 0 and RAID 1.

RAID 5: RAID 5 provides fault tolerance and better utilization of disk capacity.

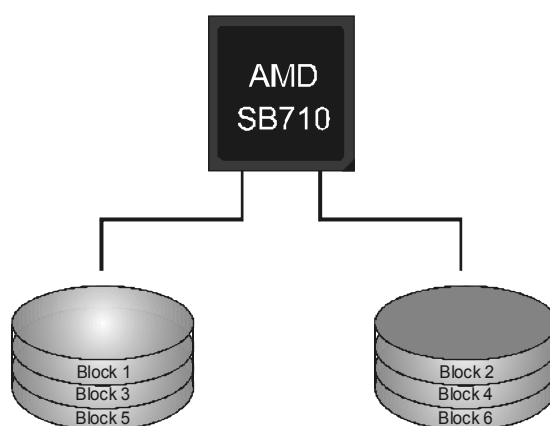
5.3 How RAID WORKS

RAID 0:

The controller “stripes” data across multiple drives in a RAID 0 array system. It breaks up a large file into smaller blocks and performs disk reads and writes across multiple drives in parallel. The size of each block is determined by the stripe size parameter, which you set during the creation of the RAID set based on the system environment. This technique reduces overall disk access time and offers high bandwidth.

Features and Benefits

- **Drives:** Minimum 2, and maximum is up to 6 or 8. Depending on the platform.
- **Uses:** Intended for non-critical data requiring high data throughput, or any environment that does not require fault tolerance.
- **Benefits:** provides increased data throughput, especially for large files. No capacity loss penalty for parity.
- **Drawbacks:** Does not deliver any fault tolerance. If any drive in the array fails, all data is lost.
- **Fault Tolerance:** No.

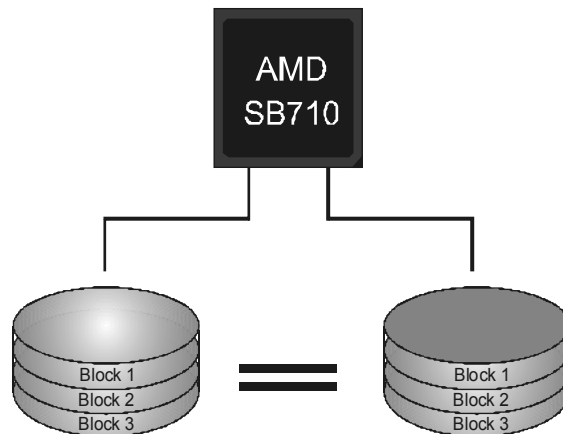


RAID 1:

Every read and write is actually carried out in parallel across 2 disk drives in a RAID 1 array system. The mirrored (backup) copy of the data can reside on the same disk or on a second redundant drive in the array. RAID 1 provides a hot-standby copy of data if the active volume or drive is corrupted or becomes unavailable because of a hardware failure. RAID techniques can be applied for high-availability solutions, or as a form of automatic backup that eliminates tedious manual backups to more expensive and less reliable media.

Features and Benefits

- **Drives:** Minimum 2, and maximum is 2.
- **Uses:** RAID 1 is ideal for small databases or any other application that requires fault tolerance and minimal capacity.
- **Benefits:** Provides 100% data redundancy. Should one drive fail, the controller switches to the other drive.
- **Drawbacks:** Requires 2 drives for the storage space of one drive. Performance is impaired during drive rebuilds.
- **Fault Tolerance:** Yes.

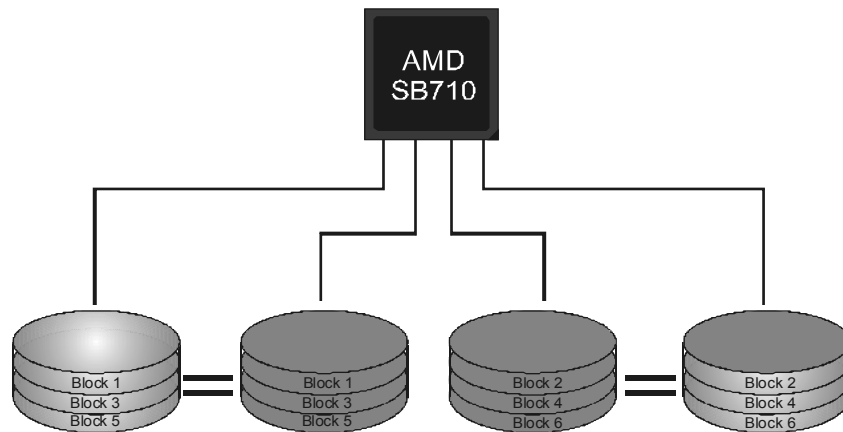


RAID 1+0:

RAID 1 drives can be striped using RAID 0 techniques. Resulting in a RAID 1+0 solution for improved resiliency, performance and rebuild performance.

Features and Benefits

- **Drives:** Minimum 4, and maximum is 6 or 8, depending on the platform.
- **Benefits:** Optimizes for both fault tolerance and performance, allowing for automatic redundancy. May be simultaneously used with other RAID levels in an array, and allows for spare disks.
- **Drawbacks:** Requires twice the available disk space for data redundancy, the same as RAID level 1.
- **Fault Tolerance:** Yes.



CHAPTER 6: T-SERIES BIOS & SOFTWARE

6.1 T-SERIES BIOS

T-Series BIOS Features

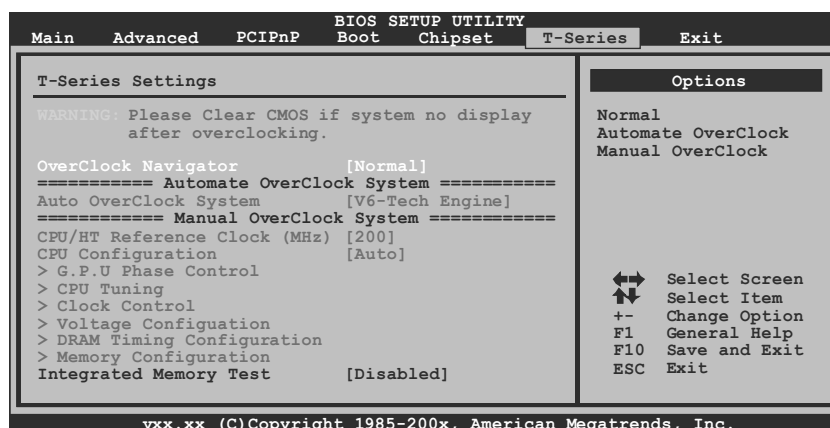
- Overclocking Navigator Engine (O.N.E.)
- Memory Integration Test (M.I.T., under Overclock Navigator Engine)
- BIO-Flasher: Update BIOS file from USB Flash Drive or FDD
- Self Recovery System (S.R.S)
- Smart Fan Function
- CMOS Reloading Program

!! WARNING !!

For better system performance, the BIOS firmware is being continuously updated. The BIOS information described below in this manual is for your reference only and the actual BIOS information and settings on board may be different from this manual. For further information of setting up the BIOS, please refer to the BIOS Manual in the Setup CD.

A. Overclocking Navigator Engine (O.N.E.)

ONE provides two powerful overclocking engines: MOS and AOS for both Elite and Casual overclockers.



Manual Overclock System (M.O.S.)

MOS is designed for experienced overclock users.
It allows users to customize personal overclock settings.



CPU/HT Reference Clock (MHz)

CPU Frequency is directly in proportion to system performance. To maintain the system stability, CPU voltage needs to be increased also when raising CPU frequency.

CPU Configuration

This item provides several fixed modes of CPU configuration.

G.P.U Phase Control

Enter this function for more power saving settings.

CPU Tuning

Enter this function for more advanced CPU settings.

Motherboard Manual

Clock Control

Enter this function for more clock settings.

Voltage Configuration

Enter this function for more advanced voltage settings.

DRAM Timing Configuration

Enter this function for more advanced DRAM clock settings.

Memory Configuration

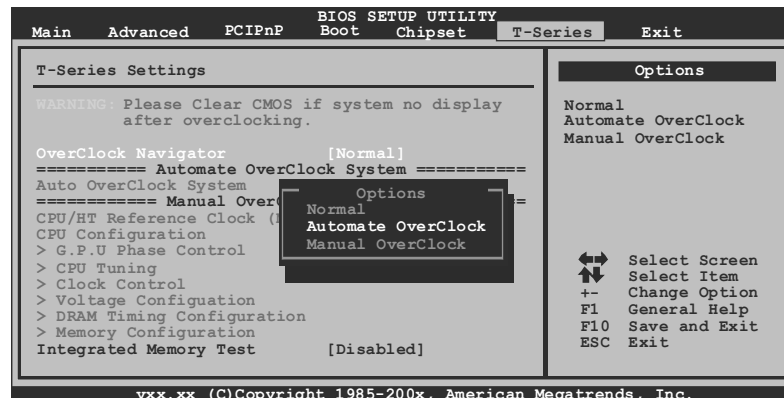
Enter this function for more advanced memory settings.

NOTE

Overclock is an optional process, but not a “must-do” process; it is not recommended for inexperienced users. Therefore, we will not be responsible for any hardware damage which may be caused by overclocking. We also would not guarantee any overclocking performance.

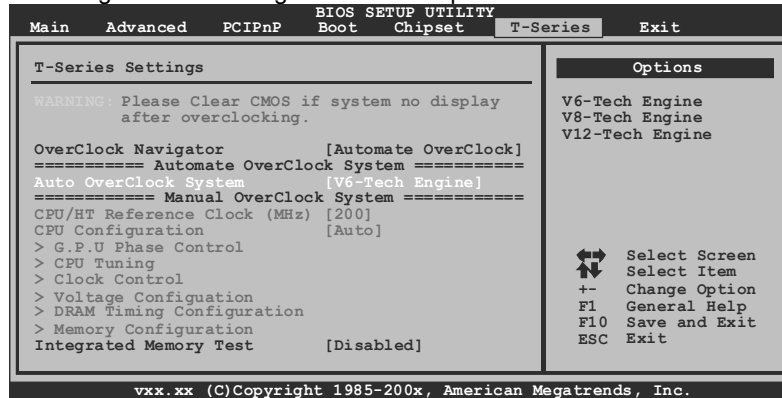
Automatic Overclock System (A.O.S.)

For beginners in overclock field, BET had developed an easy, fast, and powerful feature to increase the system performance, named A.O.S. Based on many tests and experiments, A.O.S. provides 3 ideal overclock configurations that are able to raise the system performance in a single step.

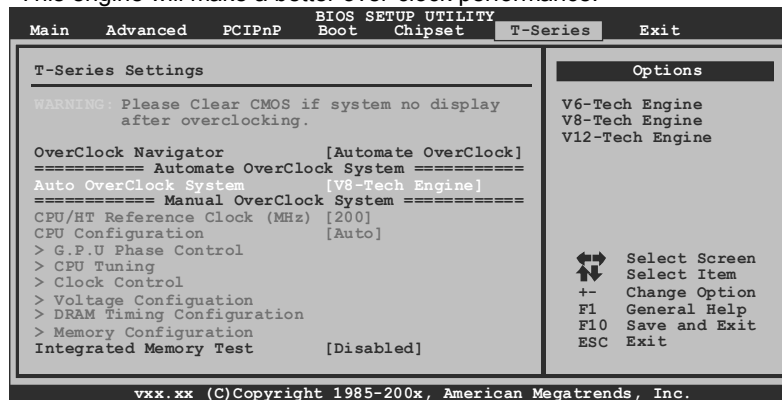


V6 Tech Engine

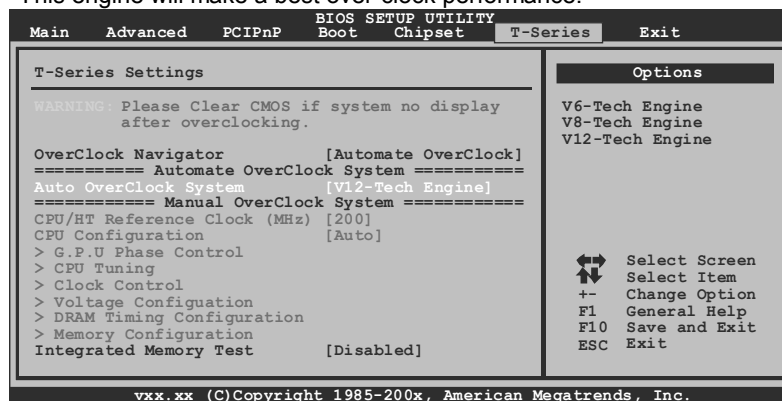
This engine will make a good over-clock performance.

**V8 Tech Engine**

This engine will make a better over-clock performance.

**V12 Tech Engine**

This engine will make a best over-clock performance.



Notices:

Not all types of AMD CPU perform above overclock setting ideally; the difference will be based on the selected CPU model.

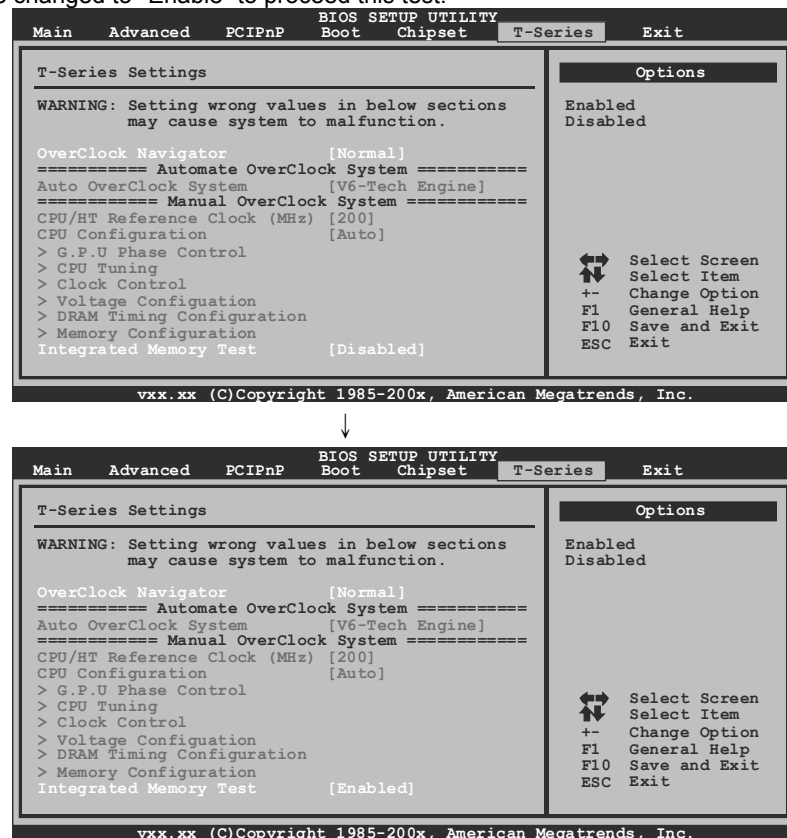
B. Memory Integration Test (M.I.T.)

This function is under “Overclocking Navigator Engine” item.

MIT allows users to test memory compatibilities, and no extra devices or software are needed.

Step 1

The default setting under this item is “Disabled”; the condition parameter should be changed to “Enable” to proceed this test.

**Step 2**

Save and Exit from CMOS setup and reboot the system to activate this test.

Run this test for 5 minutes (minimum) to ensure the memory stability.

Step 3

When the process is done, change the setting back from “Enable” to “Disable” to complete the test.

C. BIO-Flasher

BIO-Flasher is a BIOS flashing utility providing you an easy and simple way to update your BIOS via USB pen drive or floppy disk.

The BIO-Flasher is built in the BIOS chip. To enter the utility, **press <F12> during the Power-On Self Tests (POST)** procedure while booting up.

Updating BIOS with BIO-Flasher

1. Go to the website to download the latest BIOS file for the motherboard.
2. Then, save the BIOS file into a USB pen drive or a floppy disk.
3. Insert the USB pen drive or the floppy disk that contains the BIOS file to the USB port or the floppy disk drive.
4. Power on or reset the computer and then press **<F12>** during the **POST** process. A select dialog as the picture on the right appears. Select the device contains the BIOS file and press **<Enter>** to enter the utility.



5. The utility will show the BIOS files and their respective information. Select the proper BIOS file and press **<Enter>** then **<Y>** to perform the BIOS update process.
6. After the update process, the utility will ask you to reboot the system. Press **<Y>** to proceed. BIOS update completes.



- This utility only allows storage device with FAT32/16 format and single partition.
- Shutting down or resetting the system while updating the BIOS will lead to system boot failure.

D. Self Recovery System (S.R.S.)

This function can't be seen under BIOS setup; and is always on whenever the system starts up.

However, it can prevent system hang-up due to inappropriate overclock actions.

When the system hangs up, S.R.S. will automatically log in the default BIOS setting, and all overclock settings will be re-configured.

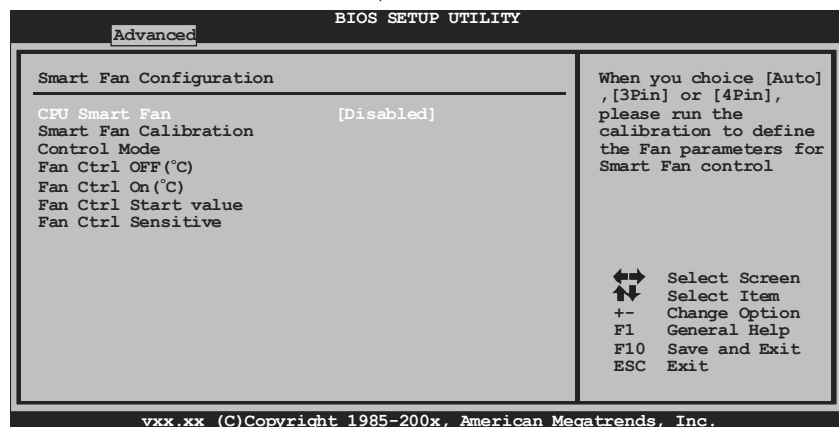
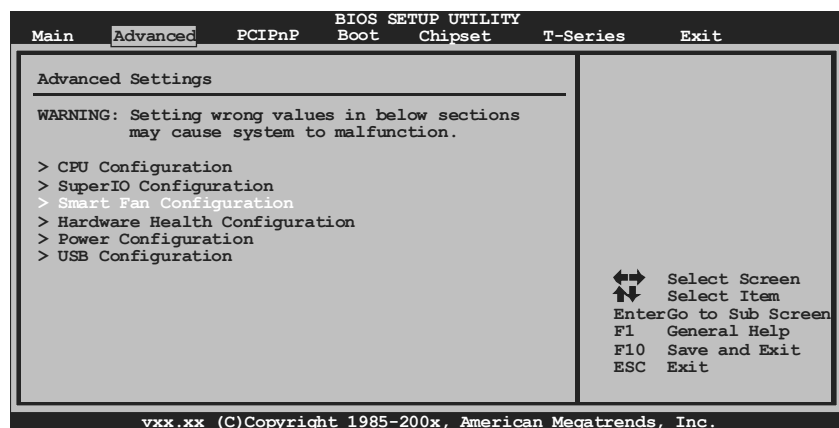
E. Smart Fan Function

Smart Fan Function is under "Smart Fan Configuration" in "Advanced Menu".

This is a brilliant feature to control CPU/System Temperature vs. Fan speed.

When enabling Smart Fan function, Fan speed is controlled automatically by CPU/System temperature.

This function will protect CPU/System from overheat problem and maintain the system temperature at a safe level.



Smart Fan Calibration

Choose this item and then the BIOS will automatically test and detect the CPU/System fan functions and show CPU/System fan speed.

Control Mode

This item provides several operation modes of the fan.

Fan Ctrl OFF(°C)

If the CPU/System temperature is lower than the set value, the CPU/System fan will turn off. The range is from 0~127, with an interval of 1.

Fan Ctrl On(°C)

The CPU/System fan starts to work when CPU/System temperature arrives to this set value. The range is from 0~127, with an interval of 1.

Fan Ctrl Start Value

When CPU/System temperature arrives to the set value, the CPU/System fan will work under Smart Fan Function mode. The range is from 0~127, with an interval of 1.

Fan Ctrl Sensitive

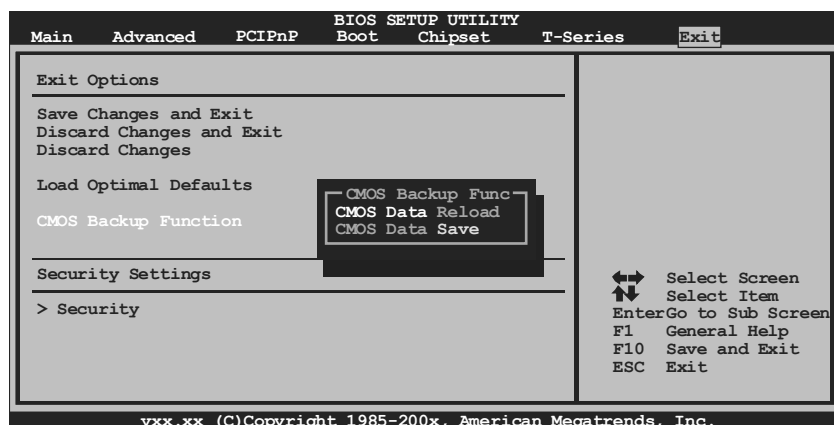
Increasing the value of slope PWM will raise the speed of CPU/System fan. The range is from 1~127, with an interval of 1.

F. CMOS Reloading Program

It allows users to save different CMOS settings into BIOS-ROM.

Users are able to reload any saved CMOS setting for customizing system configurations. Moreover, users are able to save an ideal overclock setting during overclock operation.

There are 10 sets of record addresses in total, and users are able to name the CMOS data according to personal preference.



6.2 T-SERIES SOFTWARE

Installing T-Series Software

1. Insert the Setup CD to the optical drive. The drivers installation program would appear if the Auto-run function has been enabled.
2. Select **Software Installation**, and then click on the respective software title.
3. Follow the on-screen instructions to complete the installation.

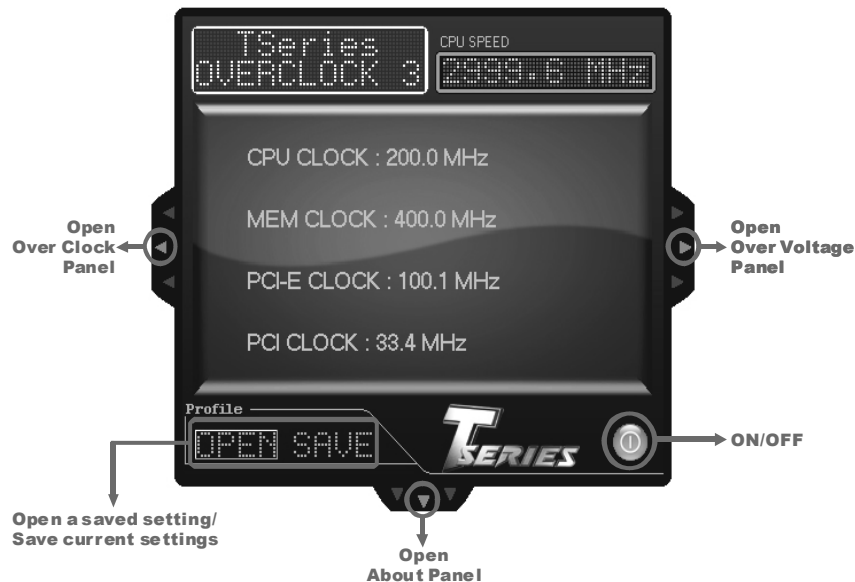
Launching T-Series Software

After the installation process, you will see the software icon “T-Utility OverClock III” / “HW Monitor” / “eHOT Line” / “Tseries BIOS Update” appears on the desktop. Double-click the icon to launch T-Series utility.

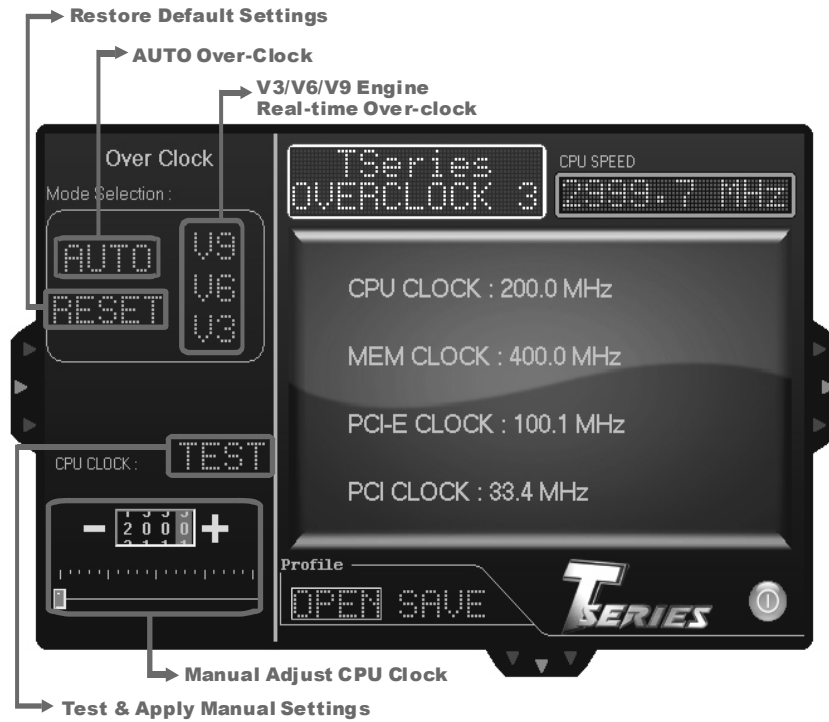
OverClock 3

OverClock 3 is equipped with friendly interface and solid over-clock features, and it will help you easily do over-clocking under windows environment.

Double-click the desktop icon, OverClock 3 will be launched; the first window you will see is **Main Panel**. In this panel you will see current CPU Speed and CPU/Memory/PCI-E/PCI Clock.

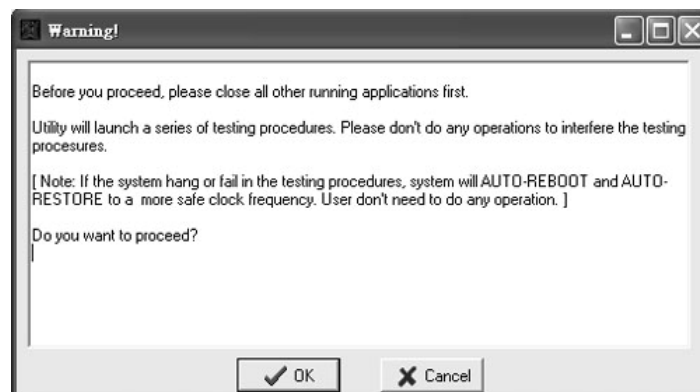


Over Clock Panel



AUTO

User can click this button and the utility will set the best and stable performance and frequency automatically. A warning dialog as below will show up to notify you that the system may become unstable, click on "OK" to continue.



Then the utility will execute a series of testing until system fail. Then system will do fail-safe reboot by using Watchdog function. After reboot, launch the utility again and the utility will load the previously verified best and stable frequency.

V3 / V6 / V9

Provide user the ability to do real-time over-clock adjustment. For beginners in over-clock field, this is a powerful feature to increase system performance.

- **V3 Engine**
This engine will make a good over-clock performance.
- **V6 Engine**
This engine will make a better over-clock performance.
- **V9 Engine**
This engine will make a best over-clock performance.

TEST

You can also manually adjust CPU clock by pressing +/- button or moving the level bar. After manually adjust the CPU clock, you should click TEST button and the utility will proceed a testing for current frequency. If the testing is ok, then the current frequency will be saved into system registry. If the testing fails, system will do a fail-safe rebooting. After reboot, the utility will restore to the hardware default setting.

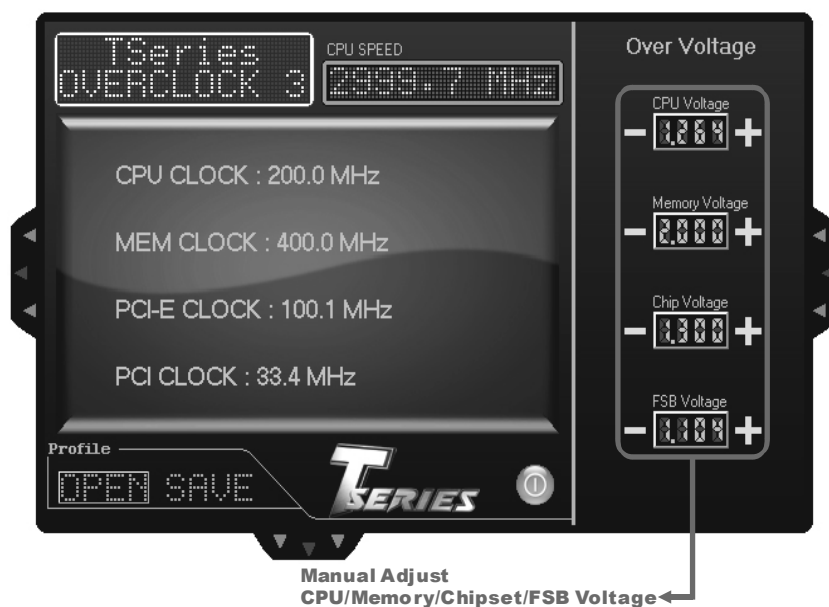
Warning

Manually over-clock is potentially dangerous, especially when the over-clocking percentage is over 110 %. We strongly recommend you test every speed you over-clock by click the TEST button. Or, you can just click AUTO over-clock button and let the Utility automatically get the best result for you.

RESET

Click this button and the utility will restore all values to the hardware default setting.

Over Voltage Panel



CPU Voltage

This function allows user to adjust CPU voltage. Click on “+” to increase or “-” to decrease the CPU voltage.

Memory Voltage

This function allows user to adjust Memory voltage. Click on “+” to increase or “-” to decrease the Memory voltage.

Chip Voltage

This function allows user to adjust Chipset voltage. Click on “+” to increase or “-” to decrease the Chipset voltage.

FSB Voltage

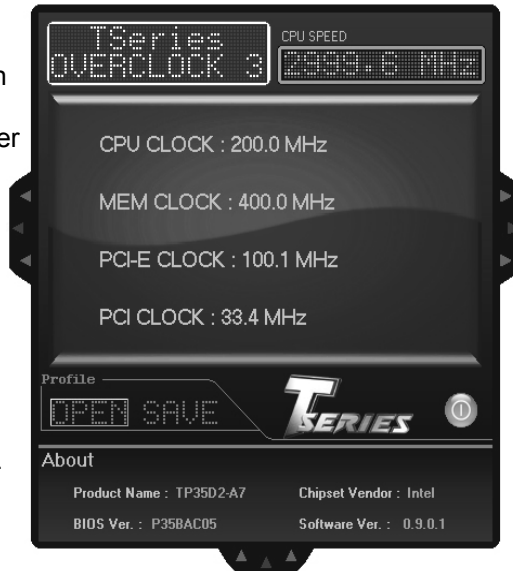
This function allows user to adjust FSB voltage. Click on “+” to increase or “-” to decrease the FSB voltage.

About Panel

In this panel, you can get model name and other system information that may related to over-clocking. You can also get the version number of this software.

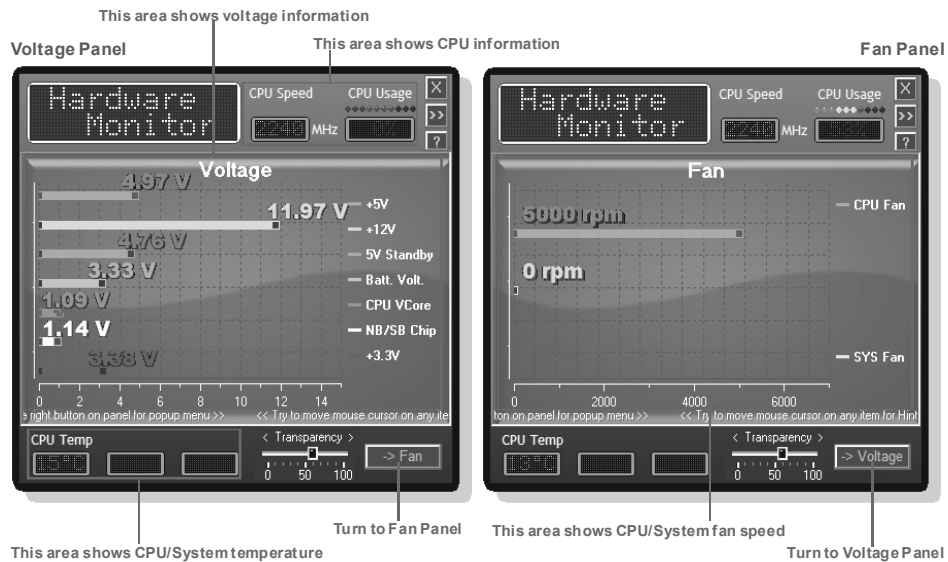
Note

Because the Over Clock and Over Voltage features are controlled by several separate chipset, the utility divides these features to separate panels. If one chipset is not on board, the correlative button in Main panel will be disabled, but it will not interfere with other panels' functions. This property can make the utility more robust.



Hardware Monitor

HW Monitor is a monitor utility that helps you to maintain the health of the PC. It provides real-time information of CPU/GPU/System temperature, fan speed, and voltage.



eHot-Line (Optional)

eHot-Line is a convenient utility that helps you to contact with our Tech-Support system. This utility will collect the system information which is useful for analyzing the problem you may have encountered, and then send these information to our tech-support department to help you fix the problem.



Before you use this utility, please set Outlook Express as your default e-mail client application program.

* represents important information that you must provide. Without this information, you may not be able to send out the mail.

This block will show the information which would be collected in the mail.

* Describe condition of your system.

Send the mail out.

Save these information to a .txt file

Exit this dialog.

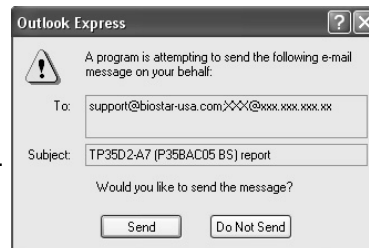
* Select your area or the area close to you.

Provide the e-mail address that you would like to send the copy to.

* Provide the name of the memory module manufacturer.

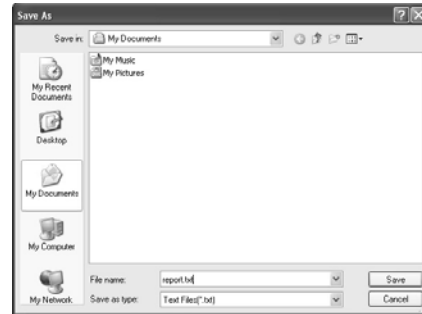
Provide the name of the power supply manufacturer and the model no.

After filling up this information, click **“Send”** to send the mail out. A warning dialog would appear asking for your confirmation; click **“Send”** to confirm or **“Do Not Send”** to cancel.



If you want to save this information to a .txt file, click **“Save As...”** and then you will see a saving dialog appears asking you to enter file name.

Enter the file name and then click **Save**. Your system information will be saved to a .txt file.



Open the saved .txt file, you will see your system information including motherboard/BIOS/CPU/video/device/OS information. This information is also concluded in the sent mail.



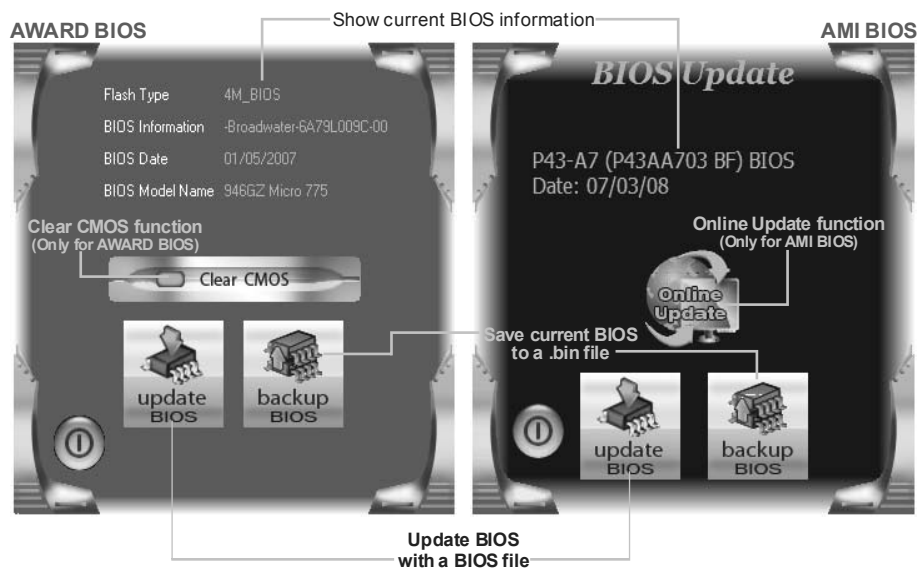
We will not share customer's data with any other third parties, so please feel free to provide your system information while using eHot-Line service.



If you are not using Outlook Express as your default e-mail client application, you may need to save the system information to a .txt file and send the file to our tech support with other e-mail application. Go to the following web <http://www.biostar.com.tw/app/en-us/about/contact.php> for getting our contact information.

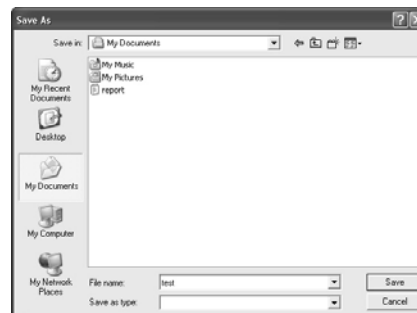
BIOS Update

BIOS Update is a convenient utility which allows you to update your motherboard BIOS under Windows system.



<Backup BIOS>

Once click on this button, the saving dialog will show. Choose the position to save file and enter file name. (We recommend that the file name should be English/number and no longer than 7 characters.) Then click **Save**.

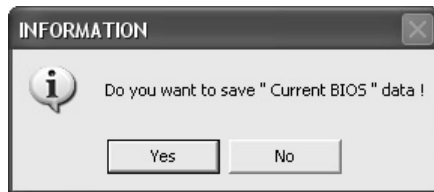
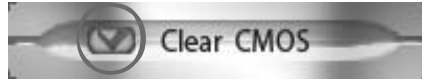


After the saving process, finish dialog will show. Click on **OK** to complete the BIOS Backup procedure.

<Update BIOS>

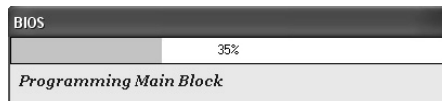
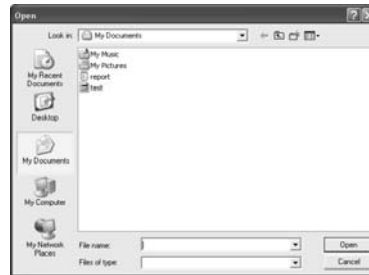
Before doing this, please download the proper BIOS file from the website.

For AWARD BIOS, update BIOS procedure should be run with Clear CMOS function, so please check on Clear CMOS first.



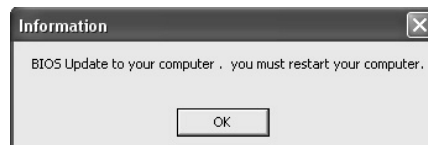
Then click Update BIOS button, a dialog will show for asking you backup current BIOS. Click **Yes** for BIOS backup and refer to the Backup BIOS procedure; or click **No** to skip this procedure.


After the BIOS Backup procedure, the open dialog will show for requesting the BIOS file which is going to be updated. Please choose the proper BIOS file for updating, then click on **Open**.



The utility will update BIOS with the proper BIOS file, and this process may take minutes. Please do not open any other applications during this process.

After the BIOS Update process, click on **OK** to restart the system.



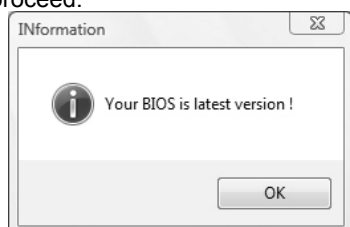
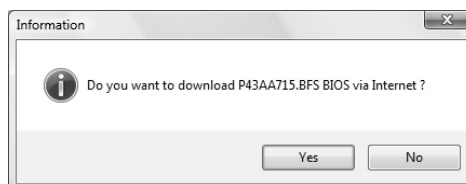
While the system boots up and the full screen logo shows, press  <Delete> key to enter BIOS setup.

In the BIOS setup, use the **Load Optimized Defaults** function and then **Save and Exit Setup** to exit BIOS setup. BIOS Update is completed.

<Online Update> (for AMI BIOS only)

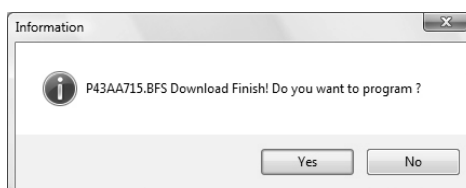
Automatically download and update the latest BIOS via internet; **make sure that the computer is connected to the internet before using this function.**

After clicking on the **Online Update** button, the utility will search for the latest BIOS from internet. If there is a new BIOS version, the utility will ask you to download it. Click **Yes** to proceed.

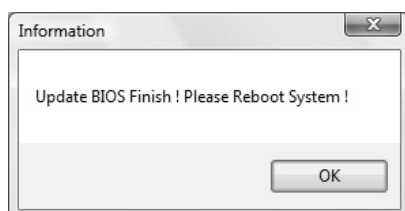


If there is no other newer BIOS version, the utility will also tell you that your BIOS has been the latest version.


Download completes; the utility will ask you to program (update) the BIOS. Click **Yes** to proceed.



The programming procedure may take minutes, **please do not make any operation during the programming process.**



After the updating process, the utility will ask you to reboot the system. Click **OK** to reboot.

While the system boots up and the full screen logo shows, press  <Delete> key to enter BIOS setup.

In the BIOS setup, use the **Load Optimized Defaults** function and then **Save and Exit Setup** to exit BIOS setup. Online Update is completed.



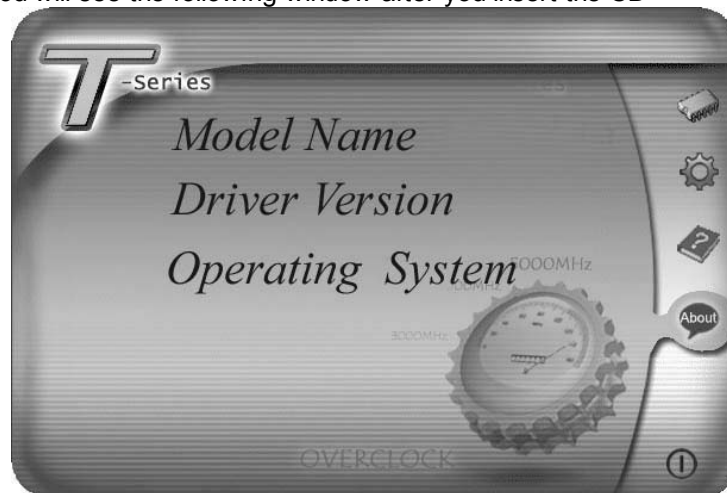
All the information and content above about the T-Series software are subject to be changed without notice. For better performance, the software is being continuously updated. The information and pictures described above are for your reference only. The actual information and settings on board may be slightly different from this manual.

CHAPTER 7: USEFUL HELP

7.1 DRIVER INSTALLATION NOTE

After you installed your operating system, please insert the Fully Setup Driver CD into your optical drive and install the driver for better system performance.

You will see the following window after you insert the CD



The setup guide will auto detect your motherboard and operating system.

Note:

If this window didn't show up after you insert the Driver CD, please use file browser to locate and execute the file **SETUP.EXE** under your optical drive.

A. Driver Installation

To install the driver, please click on the Driver icon. The setup guide will list the compatible driver for your motherboard and operating system. Click on each device driver to launch the installation program.

B. Software Installation

To install the software, please click on the Software icon. The setup guide will list the software available for your system, click on each software title to launch the installation program.

C. Manual

Aside from the paperback manual, we also provide manual in the Driver CD. Click on the Manual icon to browse for available manual.

Note:

You will need Acrobat Reader to open the manual file. Please download the latest version of Acrobat Reader software from <http://www.adobe.com/products/acrobat/readstep2.html>

7.2 EXTRA INFORMATION

CPU Overheated

If the system shutdown automatically after power on system for seconds, that means the CPU protection function has been activated.

When the CPU is over heated, the motherboard will shutdown automatically to avoid a damage of the CPU, and the system may not power on again.

In this case, please double check:

1. The CPU cooler surface is placed evenly with the CPU surface.
2. CPU fan is rotated normally.
3. CPU fan speed is fulfilling with the CPU speed.

After confirmed, please follow steps below to relief the CPU protection function.

1. Remove the power cord from power supply for seconds.
2. Wait for seconds.
3. Plug in the power cord and boot up the system.

Or you can:

1. Clear the CMOS data.
(See "Close CMOS Header: JCMOS1" section)
2. Wait for seconds.
3. Power on the system again.

7.3 AMI BIOS BEEP CODE

Boot Block Beep Codes

Number of Beeps	Description
1	No media present. (Insert diskette in floppy drive A:)
2	"AMIBOOT.ROM" file not found in root directory of diskette in A:
3	Insert next diskette if multiple diskettes are used for recovery
4	Flash Programming successful
5	File read error
7	No Flash EPROM detected
10	Flash Erase error
11	Flash Program error
12	"AMIBOOT.ROM" file size error
13	BIOS ROM image mismatch (file layout does not match image present in flash device)

POST BIOS Beep Codes

Number of Beeps	Description
1	Memory refresh timer error
3	Base memory read/write test error
6	Keyboard controller BAT command failed
7	General exception error (processor exception interrupt error)
8	Display memory error (system video adapter)

Troubleshooting POST BIOS Beep Codes

Number of Beeps	Troubleshooting Action
1, 3	Reseat the memory, or replace with known good modules.
6, 7	<p>Fatal error indicating a serious problem with the system. Consult your system manufacturer. Before declaring the motherboard beyond all hope, eliminate the possibility of interference by a malfunctioning add-in card. Remove all expansion cards except the video adapter.</p> <ul style="list-style-type: none"> ● If beep codes are generated when all other expansion cards are absent, consult your system manufacturer's technical support. ● If beep codes are not generated when all other expansion cards are absent, one of the add-in cards is causing the malfunction. Insert the cards back into the system one at a time until the problem happens again. This will reveal the malfunctioning card.
8	If the system video adapter is an add-in card, replace or reseat the video adapter. If the video adapter is an integrated part of the system board, the board may be faulty.

7.4 TROUBLESHOOTING

Probable	Solution
<ol style="list-style-type: none"> 1. There is no power in the system. Power LED does not shine; the fan of the power supply does not work 2. Indicator light on keyboard does not shine. 	<ol style="list-style-type: none"> 1. Make sure power cable is securely plugged in. 2. Replace cable. 3. Contact technical support.
System is inoperative. Keyboard lights are on, power indicator lights are lit, and hard drives are running.	Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.
System does not boot from a hard disk drive, but can be booted from optical drive.	<ol style="list-style-type: none"> 1. Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup. 2. Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.
System only boots from an optical drive. Hard disks can be read, applications can be used, but system fails to boot from a hard disk.	<ol style="list-style-type: none"> 1. Back up data and applications files. 2. Reformat the hard drive. Re-install applications and data using backup disks.
Screen message shows "Invalid Configuration" or "CMOS Failure."	Review system's equipment. Make sure correct information is in setup.
System cannot boot after user installs a second hard drive.	<ol style="list-style-type: none"> 1. Set master/slave jumpers correctly. 2. Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives.

APPENDIX: SPEC IN OTHER LANGUAGES

GERMAN

	TA780G3/TA760G3	TA785G3
CPU	Sockel AM3 AMD Athlon II / Phenom II Prozessoren Die AMD 64-Architektur unterstützt eine 32-Bit- und 64-Bit-Datenverarbeitung Unterstützt Hyper Transport 3.0 und Cool'n'Quiet (Maximales Watt: 125W)	Sockel AM3 AMD Athlon II / Phenom II Prozessoren Die AMD 64-Architektur unterstützt eine 32-Bit- und 64-Bit-Datenverarbeitung Unterstützt Hyper Transport 3.0 und Cool'n'Quiet (Maximales Watt: 125W)
FSB	Unterstützt HyperTransport 3.0 mit einer Bandbreite von bis zu 5.2 GT/s	Unterstützt HyperTransport 3.0 mit einer Bandbreite von bis zu 4.4 GT/s
Chipsatz	AMD 780G / 760G AMD SB710	AMD 785G AMD SB710
Super E/A	ITE8718F Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Count-Schnittstelle Umgebungskontrolle, Hardware-Überwachung "Smart Guardian"-Funktion von ITE	ITE8718F Bietet die häufig verwendeten alten Super E/A-Funktionen. Low Pin Count-Schnittstelle Umgebungskontrolle, Hardware-Überwachung "Smart Guardian"-Funktion von ITE
Arbeitsspeicher	DDR3 DIMM-Steckplätze x 2 Max. 8GB Arbeitsspeicher Jeder DIMM unterstützt 512MB/ 1GB/2GB/ 4GB DDR3. Dual-Kanal DDR3 Speichermodul Unterstützt DDR3 800 / 1066 / 1333 Unterstützt DDR3 1600 (OC) registrierte DIMMs. ECC DIMMs werden nicht unterstützt.	DDR3 DIMM-Steckplätze x 2 Max. 8GB Arbeitsspeicher Jeder DIMM unterstützt 512MB/ 1GB/2GB/ 4GB DDR3. Dual-Kanal DDR3 Speichermodul Unterstützt DDR3 800 / 1066 / 1333 Unterstützt DDR3 1600 (OC) registrierte DIMMs. ECC DIMMs werden nicht unterstützt.
Grafik	Integrierter AMD 780G / 760G-Chipsatz Max. 512MB gemeinsam benutzter Videospeicher Unterstützt DX10/HDCP (780G ONLY)	Integrierter AMD 785G-Chipsatz Max. 512MB gemeinsam benutzter Videospeicher Unterstützt DX10.1/HDCP
IDE	Integrierter IDE-Controller Ultra DMA 33 / 66 / 100 / 133 Bus Master-Modus Unterstützt PIO-Modus 0~4,	Integrierter IDE-Controller Ultra DMA 33 / 66 / 100 / 133 Bus Master-Modus Unterstützt PIO-Modus 0~4,
SATA	Integrierter Serial ATA-Controller Datentransferrate bis zu 3 Gb/s Konform mit der SATA-Spezifikation Version 2.0.	Integrierter Serial ATA-Controller Datentransferrate bis zu 3 Gb/s Konform mit der SATA-Spezifikation Version 2.0.

TA785G3/TA780G3/TA760G3

	TA780G3/TA760G3	TA785G3
LAN	Realtek RTL 8111DL 10 / 100 / 1000 Mb/s Auto-Negotiation Halb-/ Vollduplex-Funktion	Realtek RTL 8111DL 10 / 100 / 1000 Mb/s Auto-Negotiation Halb-/ Vollduplex-Funktion
HD	ALC662	ALC662
Audio-Unterstützung	5.1-Kanal-Audioausgabe Unterstützt High-Definition Audio	5.1-Kanal-Audioausgabe Unterstützt High-Definition Audio
Steckplätze	PCI Express Gen2 x16 Steckplatz x1 PCI-Steckplatz x2	PCI Express Gen2 x16 Steckplatz x1 PCI-Steckplatz x2
Onboard-Anschluss	Diskettenlaufwerkanschluss x1 IDE-Anschluss x1 SATA-Anschluss x4 Fronttafelanschluss x1 Front-Audioanschluss x1 S/PDIF- Ausgangsanschluss x1 CPU-Lüfter-Sockel x1 System-Lüfter-Sockel x2 "CMOS löschen"-Sockel x1 USB-Anschluss x2 Stromanschluss (24-polig) x1 Stromanschluss (4-polig) x1 Serieller Anschluss x1	Diskettenlaufwerkanschluss x1 IDE-Anschluss x1 SATA-Anschluss x4 Fronttafelanschluss x1 Front-Audioanschluss x1 S/PDIF- Ausgangsanschluss x1 CPU-Lüfter-Sockel x1 System-Lüfter-Sockel x2 "CMOS löschen"-Sockel x1 USB-Anschluss x2 Stromanschluss (24-polig) x1 Stromanschluss (4-polig) x1 Serieller Anschluss x1
Rückseiten-E/A	PS/2-Tastatur x1 PS/2-Maus x1 VGA-Anschluss x1 LAN-Anschluss x1 USB-Anschluss x4 Audioanschluss x3 DVI-Anschluss x1	PS/2-Tastatur x1 PS/2-Maus x1 VGA-Anschluss x1 LAN-Anschluss x1 USB-Anschluss x4 Audioanschluss x3 DVI-Anschluss x1
Platinengröße	209 mm (B) X 244 mm (L)	209 mm (B) X 244 mm (L)
Sonderfunktionen	Unterstützt RAID 0 / 1 / 1+0	Unterstützt RAID 0 / 1 / 1+0
OS-Unterstützung	Windows XP / Vista 32 / Vista 64 / 7 Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.	Windows XP / Vista 32 / Vista 64 / 7 Biostar behält sich das Recht vor, ohne Ankündigung die Unterstützung für ein Betriebssystem hinzuzufügen oder zu entfernen.

FRENCH

	TA780G3/TA760G3	TA785G3
UC	Socket AM3 Processeurs AMD Athlon II / Phenom II L'architecture AMD 64 permet le calcul 32 et 64 bits Prend en charge Hyper Transport 3.0 et Cool'n'Quiet (Watt maximum : 125W)	Socket AM3 Processeurs AMD Athlon II / Phenom II L'architecture AMD 64 permet le calcul 32 et 64 bits Prend en charge Hyper Transport 3.0 et Cool'n'Quiet (Watt maximum : 125W)
Bus frontal	Prend en charge Hyper Transport 3.0 jusqu'à une bande passante de 5.2 GT/s	Prend en charge Hyper Transport 3.0 jusqu'à une bande passante de 4.4 GT/s
Chipset	AMD 780G / 760G AMD SB710	AMD 785G AMD SB710
Super E/S	ITE 8718F Fournit la fonctionnalité de Super E/S patrimoniales la plus utilisée. Interface à faible compte de broches Initiatives de contrôle environnementales, Moniteur de matériel Fonction "Gardien intelligent" de l'ITE	ITE 8718F Fournit la fonctionnalité de Super E/S patrimoniales la plus utilisée. Interface à faible compte de broches Initiatives de contrôle environnementales, Moniteur de matériel Fonction "Gardien intelligent" de l'ITE
Mémoire principale	Fentes DDR3 DIMM x 2 Capacité mémoire maximale de 8 Go Chaque DIMM prend en charge des DDR3 de 512 Mo et 1Go/2Go/4Go Module de mémoire DDR3 à mode à double voie Prend en charge la DDR3 800 / 1066 / 1333 Prend en charge la DDR3 1600 (OC) Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge	Fentes DDR3 DIMM x 2 Capacité mémoire maximale de 8 Go Chaque DIMM prend en charge des DDR3 de 512 Mo et 1Go/2Go/4Go Module de mémoire DDR3 à mode à double voie Prend en charge la DDR3 800 / 1066 / 1333 Prend en charge la DDR3 1600 (OC) Les DIMM à registres et DIMM avec code correcteurs d'erreurs ne sont pas prises en charge
Graphiques	Intégré dans la chipset AMD 780G / 760G Mémoire vidéo partagée maximale de 512 Mo Prise en charge DX10/HDPC (780G ONLY)	Intégré dans la chipset AMD 785G Mémoire vidéo partagée maximale de 512 Mo Prise en charge DX10.1/HDPC
IDE	Contrôleur IDE intégré Mode principale de Bus Ultra DMA 33 / 66 / 100 / 133 Prend en charge le mode PIO 0~4,	Contrôleur IDE intégré Mode principale de Bus Ultra DMA 33 / 66 / 100 / 133 Prend en charge le mode PIO 0~4,
SATA	Contrôleur Serial ATA intégré Taux de transfert jusqu'à 3 Go/s. Conforme à la spécification SATA Version 2.0	Contrôleur Serial ATA intégré Taux de transfert jusqu'à 3 Go/s. Conforme à la spécification SATA Version 2.0

TA785G3/TA780G3/TA760G3

	TA780G3/TA760G3	TA785G3
LAN	Realtek RTL 8111DL 10 / 100 / 1000 Mb/s négociation automatique Half / Full duplex capability	Realtek RTL 8111DL 10 / 100 / 1000 Mb/s négociation automatique Half / Full duplex capability
Prise en charge audio HD	ALC662 Sortie audio à 5.1 voies Prise en charge de l'audio haute définition	ALC662 Sortie audio à 5.1 voies Prise en charge de l'audio haute définition
Fentes	Fente PCI Express Gen2 x16 x1 Fente PCI x2	Fente PCI Express Gen2 x16 x1 Fente PCI x2
Connecteur embarqué	Connecteur de disquette x1 Connecteur IDE x1 Connecteur SATA x4 Connecteur du panneau avant x1 Connecteur Audio du panneau avant x1 Connecteur de sortie S/PDIF x1 Embase de ventilateur UC x1 Embase de ventilateur système x2 Embase d'effacement CMOS x1 Connecteur USB x2 Connecteur d'alimentation (24 broches) x1 Connecteur d'alimentation (4 broches) x1 Connecteur de Port série x1	Connecteur de disquette x1 Connecteur IDE x1 Connecteur SATA x4 Connecteur du panneau avant x1 Connecteur Audio du panneau avant x1 Connecteur de sortie S/PDIF x1 Embase de ventilateur UC x1 Embase de ventilateur système x2 Embase d'effacement CMOS x1 Connecteur USB x2 Connecteur d'alimentation (24 broches) x1 Connecteur d'alimentation (4 broches) x1 Connecteur de Port série x1
E/S du panneau arrière	Clavier PS/2 x1 Souris PS/2 x1 Port VGA x1 Port LAN x1 Port USB x4 Fiche audio x3 Port DVI x1	Clavier PS/2 x1 Souris PS/2 x1 Port VGA x1 Port LAN x1 Port USB x4 Fiche audio x3 Port DVI x1
Dimensions de la carte	209 mm (l) X 244 mm (H)	209 mm (l) X 244 mm (H)
Fonctionnalités spéciales	Prise en charge RAID 0 / 1 / 1+0	Prise en charge RAID 0 / 1 / 1+0
Support SE	Windows XP / Vista 32 / Vista 64 / 7 Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.	Windows XP / Vista 32 / Vista 64 / 7 Biostar se réserve le droit d'ajouter ou de supprimer le support de SE avec ou sans préavis.

ITALIAN

	TA780G3/TA760G3	TA785G3
CPU	Socket AM3 Processori AMD Athlon II / Phenom II L'architettura AMD 64 abilita la computazione 32 e 64 bit Supporto di Hyper Transport 3.0 e Cool'n'Quiet (Watt massimo: 125W)	Socket AM3 Processori AMD Athlon II / Phenom II L'architettura AMD 64 abilita la computazione 32 e 64 bit Supporto di Hyper Transport 3.0 e Cool'n'Quiet (Watt massimo: 125W)
FSB	Supporto di HyperTransport 3.0 fino a 5.2 GT/s di larghezza di banda	Supporto di HyperTransport 3.0 fino a 4.4 GT/s di larghezza di banda
Chipset	AMD 780G / 760G AMD SB710	AMD 785G AMD SB710
Super I/O	ITE 8718F Fornisce le funzionalità legacy Super I/O usate più comunemente. Interfaccia LPC (Low Pin Count) Funzioni di controllo dell'ambiente: Monitoraggio hardware Funzione "Smart Guardian" di ITE	ITE 8718F Fornisce le funzionalità legacy Super I/O usate più comunemente. Interfaccia LPC (Low Pin Count) Funzioni di controllo dell'ambiente: Monitoraggio hardware Funzione "Smart Guardian" di ITE
Memoria principale	Alloggi DIMM DDR3 x 2 Capacità massima della memoria 8GB Ciascun DIMM supporta DDR3 512MB e 1GB/2GB/4GB Modulo di memoria DDR3 a canale doppio Supporto di DDR3 800 / 1066 / 1333 Supporto di DDR3 1600 (OC) DIMM registrati e DIMM ECC non sono supportati	Alloggi DIMM DDR3 x 2 Capacità massima della memoria 8GB Ciascun DIMM supporta DDR3 512MB e 1GB/2GB/4GB Modulo di memoria DDR3 a canale doppio Supporto di DDR3 800 / 1066 / 1333 Supporto di DDR3 1600 (OC) DIMM registrati e DIMM ECC non sono supportati
Grafica	Integrata nel Chipset AMD 780G / 760G La memoria video condivisa massima è di 512 MB Supporto DX10/HDPC (780G ONLY)	Integrata nel Chipset AMD 785G La memoria video condivisa massima è di 512 MB Supporto DX10.1/HDPC
IDE	Controller IDE integrato Modalità Bus Master Ultra DMA 33 / 66 / 100 / 133 Supporto modalità PIO Mode 0-4	Controller IDE integrato Modalità Bus Master Ultra DMA 33 / 66 / 100 / 133 Supporto modalità PIO Mode 0-4
SATA	Controller Serial ATA integrato Velocità di trasferimento dei dati fino a 3 Gb/s. Compatibile specifiche SATA Versione 2.0.	Controller Serial ATA integrato Velocità di trasferimento dei dati fino a 3 Gb/s. Compatibile specifiche SATA Versione 2.0.

TA785G3/TA780G3/TA760G3

TA780G3/TA760G3		TA785G3
LAN	Realtek RTL 8111DL Negoziazione automatica 10 / 100 / 1000 Mb/s Capacità Half / Full Duplex	Realtek RTL 8111DL Negoziazione automatica 10 / 100 / 1000 Mb/s Capacità Half / Full Duplex
Supporto audio HD	ALC662 Uscita audio 5.1 canali Supporto audio High-Definition (HD)	ALC662 Uscita audio 5.1 canali Supporto audio High-Definition (HD)
Alloggi	Alloggio PCI Express Gen2 x16 x1 Alloggio PCI x2	Alloggio PCI Express Gen2 x16 x1 Alloggio PCI x2
Connettori su scheda	Connettore floppy x1 Connettore IDE x1 Connettore SATA x4 Connettore pannello frontale x1 Connettore audio frontale x1 Connettore output SPDIF x1 Collettore ventolina CPU x1 Collettore ventolina sistema x2 Collettore cancellazione CMOS x1 Connettore USB x2 Connettore alimentazione x1 (24 pin) Connettore alimentazione x1 (4 pin) Connettore Porta seriale x1	Connettore floppy x1 Connettore IDE x1 Connettore SATA x4 Connettore pannello frontale x1 Connettore audio frontale x1 Connettore output SPDIF x1 Collettore ventolina CPU x1 Collettore ventolina sistema x2 Collettore cancellazione CMOS x1 Connettore USB x2 Connettore alimentazione x1 (24 pin) Connettore alimentazione x1 (4 pin) Connettore Porta seriale x1
I/O pannello posteriore	Tastiera PS/2 x1 Mouse PS/2 x1 Porta VGA x1 Porta LAN x1 Porta USB x4 Connettore audio x3 Porta DVI x1	Tastiera PS/2 x1 Mouse PS/2 x1 Porta VGA x1 Porta LAN x1 Porta USB x4 Connettore audio x3 Porta DVI x1
Dimensioni scheda	209 mm (larghezza) x 244 mm (altezza)	209 mm (larghezza) x 244 mm (altezza)
Caratteristiche speciali	Supporto RAID 0 / 1 / 1+0	Supporto RAID 0 / 1 / 1+0
Sistemi operativi supportati	Windows XP / Vista 32 / Vista 64 / 7 Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.	Windows XP / Vista 32 / Vista 64 / 7 Biostar si riserva il diritto di aggiungere o rimuovere il supporto di qualsiasi sistema operativo senza preavviso.

SPANISH

	TA780G3/TA760G3	TA785G3
CPU	Conector AM3 Procesadores AMD Athlon II / Phenom II La arquitectura AMD 64 permite el procesado de 32 y 64 bits Soporta las tecnologías Hyper Transport 3.0 y Cool'n'Quiet (Vatio máximo: 125W)	Conector AM3 Procesadores AMD Athlon II / Phenom II La arquitectura AMD 64 permite el procesado de 32 y 64 bits Soporta las tecnologías Hyper Transport 3.0 y Cool'n'Quiet (Vatio máximo: 125W)
FSB	Admite HyperTransport 3.0 con un ancho de banda de hasta 5.2 GT/s	Admite HyperTransport 3.0 con un ancho de banda de hasta 4.4 GT/s
Conjunto de chips	AMD 780G / 760G AMD SB710	AMD 785G AMD SB710
Súper E/S	ITE 8718F Le ofrece las funcionalidades heredadas de uso más común Súper E/S. Interfaz de cuenta Low Pin Iniciativas de control de entorno, Monitor hardware Función "Guardia inteligente" de ITE	ITE 8718F Le ofrece las funcionalidades heredadas de uso más común Súper E/S. Interfaz de cuenta Low Pin Iniciativas de control de entorno, Monitor hardware Función "Guardia inteligente" de ITE
Memoria principal	Ranuras DIMM DDR3 x 2 Capacidad máxima de memoria de 8GB Cada DIMM admite DDR de 512MB y 1GB/2GB/4GB Módulo de memoria DDR3 de canal Doble Admite DDR3 de 800 / 1066 / 1333 Admite DDR3 de 1600 (OC) No admite DIMM registrados o DIMM compatibles con ECC	Ranuras DIMM DDR3 x 2 Capacidad máxima de memoria de 8GB Cada DIMM admite DDR de 512MB y 1GB/2GB/4GB Módulo de memoria DDR3 de canal Doble Admite DDR3 de 800 / 1066 / 1333 Admite DDR3 de 1600 (OC) No admite DIMM registrados o DIMM compatibles con ECC
Gráficos	Integrados en el conjunto de chips AMD 780G / 760G Memoria máxima de vídeo compartida de 512 MB Admite DX10/HDCP (780G ONLY)	Integrados en el conjunto de chips AMD 785G Memoria máxima de vídeo compartida de 512 MB Admite DX10.1/HDCP
IDE	Controlador IDE integrado Modo bus maestro Ultra DMA 33 / 66 / 100 / 133 Soporte los Modos PIO 0~4,	Controlador IDE integrado Modo bus maestro Ultra DMA 33 / 66 / 100 / 133 Soporte los Modos PIO 0~4,
SATA	Controlador ATA Serie Integrado Tasas de transferencia de hasta 3 Gb/s. Compatible con la versión SATA 2.0.	Controlador ATA Serie Integrado Tasas de transferencia de hasta 3 Gb/s. Compatible con la versión SATA 2.0.

TA785G3/TA780G3/TA760G3

TA780G3/TA760G3			TA785G3		
Red Local	Realtek RTL 8111DL		Realtek RTL 8111DL		
	Negociación de 10 / 100 / 1000 Mb/s		Negociación de 10 / 100 / 1000 Mb/s		
	Funciones Half / Full dúplex		Funciones Half / Full dúplex		
Soporte de sonido HD	ALC662		ALC662		
	Salida de sonido de 5.1 canales		Salida de sonido de 5.1 canales		
	Soporte de sonido Alta Definición		Soporte de sonido Alta Definición		
Ranuras	Ranura PCI Express Gen2 x16	X1	Ranura PCI Express Gen2 x16	X1	
	Ranura PCI	X2	Ranura PCI	X2	
Conectores en placa	Conector disco flexible	X1	Conector disco flexible	X1	
	Conector IDE	X1	Conector IDE	X1	
	Conector SATA	X4	Conector SATA	X4	
	Conector de panel frontal	X1	Conector de panel frontal	X1	
	Conector de sonido frontal	X1	Conector de sonido frontal	X1	
	Conector de salida S/PDIF	X1	Conector de salida S/PDIF	X1	
	Cabecera de ventilador de CPU	X1	Cabecera de ventilador de CPU	X1	
	Cabecera de ventilador de sistema	X2	Cabecera de ventilador de sistema	X2	
	Cabecera de borrado de CMOS	X1	Cabecera de borrado de CMOS	X1	
	Conector USB	X2	Conector USB	X2	
	Conector de alimentación (24 patillas)	X1	Conector de alimentación (24 patillas)	X1	
	Conector de alimentación (4 patillas)	X1	Conector de alimentación (4 patillas)	X1	
Panel trasero de E/S	Conector Puerto serie	X1	Conector Puerto serie	X1	
	Teclado PS/2	X1	Teclado PS/2	X1	
	Ratón PS/2	X1	Ratón PS/2	X1	
	Puerto VGA	X1	Puerto VGA	X1	
	Puerto de red local	X1	Puerto de red local	X1	
	Puerto USB	X4	Puerto USB	X4	
	Conector de sonido	X3	Conector de sonido	X3	
Tamaño de la placa	Puerto DVI	X1	Puerto DVI	X1	
	209 mm. (A) X 244 Mm. (H)		209 mm. (A) X 244 Mm. (H)		
Funciones especiales	Admite RAID 0 / 1 / 1+0		Admite RAID 0 / 1 / 1+0		
Soporte de sistema operativo	Windows XP / Vista 32 / Vista 64 / 7		Windows XP / Vista 32 / Vista 64 / 7		
	Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.		Biostar se reserva el derecho de añadir o retirar el soporte de cualquier SO con o sin aviso previo.		

PORTUGUESE

	TA780G3/TA760G3	TA785G3
CPU	Socket AM3 Processadores AMD Athlon II / Phenom II A arquitectura AMD 64 permite uma computação de 32 e 64 bits Suporta as tecnologias Hyper Transport 3.0 e Cool'n'Quiet (Watt máximo: 125W)	Socket AM3 Processadores AMD Athlon II / Phenom II A arquitectura AMD 64 permite uma computação de 32 e 64 bits Suporta as tecnologias Hyper Transport 3.0 e Cool'n'Quiet (Watt máximo: 125W)
FSB	Suporta a tecnologia HyperTransport 3.0 com uma largura de banda até 5.2 GT/s	Suporta a tecnologia HyperTransport 3.0 com uma largura de banda até 4.4 GT/s
Chipset	AMD 780G / 760G AMD SB710	AMD 785G AMD SB710
Especificação Super I/O	ITE 8718F Proporciona as funcionalidades mais utilizadas em termos da especificação Super I/O. Interface LPC (Low Pin Count). Iniciativas para controlo do ambiente Monitorização do hardware Função "Smart Guardian" da ITE	ITE 8718F Proporciona as funcionalidades mais utilizadas em termos da especificação Super I/O. Interface LPC (Low Pin Count). Iniciativas para controlo do ambiente Monitorização do hardware Função "Smart Guardian" da ITE
Memória principal	Ranhuras DIMM DDR3 x 2 Capacidade máxima de memória: 8 GB Cada módulo DIMM suporta uma memória DDR3 de 512 MB & 1 GB/2 GB/4 GB Módulo de memória DDR3 de canal duplo Suporta módulos DDR3 800 / 1066 / 1333 Suporta módulos DDR3 1600 (OC) Os módulos DIMM registados e os DIMM ECC não são suportados	Ranhuras DIMM DDR3 x 2 Capacidade máxima de memória: 8 GB Cada módulo DIMM suporta uma memória DDR3 de 512 MB & 1 GB/2 GB/4 GB Módulo de memória DDR3 de canal duplo Suporta módulos DDR3 800 / 1066 / 1333 Suporta módulos DDR3 1600 (OC) Os módulos DIMM registados e os DIMM ECC não são suportados
Placa gráfica	Integrada no chipset AMD 780G / 760G Memória de vídeo máxima partilhada: 512 MB Suporta as funções DX10/HDPC (780G ONLY)	Integrada no chipset AMD 785G Memória de vídeo máxima partilhada: 512 MB Suporta as funções DX10.1/HDPC
IDE	Controlador IDE integrado Modo Bus master Ultra DMA 33 / 66 / 100 / 133 Suporta o modo PIO 0~4,	Controlador IDE integrado Modo Bus master Ultra DMA 33 / 66 / 100 / 133 Suporta o modo PIO 0~4,
SATA	Controlador Serial ATA integrado Velocidades de transmissão de dados até 3 Gb/s. Compatibilidade com a especificação SATA versão 2.0.	Controlador Serial ATA integrado Velocidades de transmissão de dados até 3 Gb/s. Compatibilidade com a especificação SATA versão 2.0.

TA785G3/TA780G3/TA760G3

TA780G3/TA760G3		TA785G3	
LAN	Realtek RTL 8111DL Auto negociação de 10 / 100 / 1000 Mb/s Capacidade semi/full-duplex	Realtek RTL 8111DL Auto negociação de 10 / 100 / 1000 Mb/s Capacidade semi/full-duplex	
Suporte para áudio de alta definição	ALC662 Saída de áudio de 5.1 canais Suporta a especificação High-Definition Audio	ALC662 Saída de áudio de 5.1 canais Suporta a especificação High-Definition Audio	
Ranhuras	Ranhura PCI Express Gen2 x16 x1 Ranhura PCI x2	Ranhura PCI Express Gen2 x16 x1 Ranhura PCI x2	
Conectores na placa	Conector da unidade de disquetes x1 Conector IDE x1 Conector SATA x4 Conector do painel frontal x1 Conector de áudio frontal x1 Conector de saída S/PDIF x1 Conector da ventoinha da CPU x1 Conector da ventoinha do sistema x2 Conector para limpeza do CMOS x1 Conector USB x2 Conector de alimentação x1 (24 pinos) Conector de alimentação x1 (4 pinos) Conector da Porta série x1	Conector da unidade de disquetes x1 Conector IDE x1 Conector SATA x4 Conector do painel frontal x1 Conector de áudio frontal x1 Conector de saída S/PDIF x1 Conector da ventoinha da CPU x1 Conector da ventoinha do sistema x2 Conector para limpeza do CMOS x1 Conector USB x2 Conector de alimentação x1 (24 pinos) Conector de alimentação x1 (4 pinos) Conector da Porta série x1	
Entradas/Saídas no painel traseiro	Teclado PS/2 x1 Rato PS/2 x1 Porta VGA x1 Porta LAN x1 Porta USB x4 Tomada de áudio x3 Porta DVI x1	Teclado PS/2 x1 Rato PS/2 x1 Porta VGA x1 Porta LAN x1 Porta USB x4 Tomada de áudio x3 Porta DVI x1	
Tamanho da placa	209 mm (L) X 244 mm (A)	209 mm (L) X 244 mm (A)	
Características especiais	Suporta as funções RAID 0 / 1 / 1+0	Suporta as funções RAID 0 / 1 / 1+0	
Sistemas operativos suportados	Windows XP / Vista 32 / Vista 64 / 7 A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.	Windows XP / Vista 32 / Vista 64 / 7 A Biostar reserva-se o direito de adicionar ou remover suporte para qualquer sistema operativo com ou sem aviso prévio.	

POLISH

	TA780G3/TA760G3	TA785G3
Procesor	Socket AM3 AMD Athlon II / Phenom II Procesory Architektura AMD 64 umożliwia przetwarzanie 32 i 64 bitowe Obsługa Hyper Transport 3.0 oraz Cool'n'Quiet (Maksymalny Watt: 125W)	Socket AM3 AMD Athlon II / Phenom II Procesory Architektura AMD 64 umożliwia przetwarzanie 32 i 64 bitowe Obsługa Hyper Transport 3.0 oraz Cool'n'Quiet (Maksymalny Watt: 125W)
FSB	Obsługa HyperTransport 3.0 o szerokości pasma do 5.2 GT/s	Obsługa HyperTransport 3.0 o szerokości pasma do 4.4 GT/s
Chipset	AMD 780G / 760G AMD SB710	AMD 785G AMD SB710
Pamięć główna	Gniazda DDR3 DIMM x 2 Maks. wielkość pamięci 8GB Każde gniazdo DIMM obsługuje moduły 512MB oraz 1GB/2GB/4GB DDR3 Moduł pamięci DDR3 z trybem podwójnego kanału Obsługa DDR3 800 / 1066 / 1333 Obsługa DDR3 1600 (OC) Brak obsługi Registered DIMM oraz ECC DIMM	Gniazda DDR3 DIMM x 2 Maks. wielkość pamięci 8GB Każde gniazdo DIMM obsługuje moduły 512MB oraz 1GB/2GB/4GB DDR3 Moduł pamięci DDR3 z trybem podwójnego kanału Obsługa DDR3 800 / 1066 / 1333 Obsługa DDR3 1600 (OC) Brak obsługi Registered DIMM oraz ECC DIMM
Super I/O	ITE 8718F Zapewnia najbardziej powszechne funkcje Super I/O. Interfejs Low Pin Count Funkcje kontroli warunków pracy, Monitor H/W Funkcja ITE "Smart Guardian"	ITE 8718F Zapewnia najbardziej powszechne funkcje Super I/O. Interfejs Low Pin Count Funkcje kontroli warunków pracy, Monitor H/W Funkcja ITE "Smart Guardian"
Grafika	Zintegrowana w chipsecie AMD 780G / 760G Maks. wielkość współdzielonej pamięci video wynosi 512 MB Obsługa DX10/HDPC (780G ONLY)	Zintegrowana w chipsecie AMD 785G Maks. wielkość współdzielonej pamięci video wynosi 512 MB Obsługa DX10.1/HDPC
IDE	Zintegrowany kontroler IDE Ultra DMA 33 / 66 / 100 / 133 Tryb Bus Master obsługa PIO tryb 0~4,	Zintegrowany kontroler IDE Ultra DMA 33 / 66 / 100 / 133 Tryb Bus Master obsługa PIO tryb 0~4,
SATA	Zintegrowany kontroler Serial ATA Transfer danych do 3 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0.	Zintegrowany kontroler Serial ATA Transfer danych do 3 Gb/s. Zgodność ze specyfikacją SATA w wersji 2.0.

TA785G3/TA780G3/TA760G3

TA780G3/TA760G3		TA785G3	
LAN	Realtek RTL 8111DL 110 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości Działanie w trybie połowicznego / pełnego duplexu	Realtek RTL 8111DL 10 / 100 / 1000 Mb/s z automatyczną negocjacją szybkości Działanie w trybie połowicznego / pełnego duplexu	
Obsługa audio HD	ALC662 5.1 kanałowe wyjście audio Obsługa High-Definition Audio	ALC662 5.1 kanałowe wyjście audio Obsługa High-Definition Audio	
Gniazda	Gniazdo PCI Express Gen2 x16 x1 Gniazdo PCI x2	Gniazdo PCI Express Gen2 x16 x1 Gniazdo PCI x2	
Złącza wbudowane	Złącze napędu dyskietek x1 Złącze IDE x1 Złącze SATA x4 Złącze panela przedniego x1 Przednie złącze audio x1 Złącze wyjścia S/PDIF x1 Złącze główkowe wentylatora procesora x1 Złącze główkowe wentylatora systemowego x2 Złącze główkowe kasowania CMOS x1 Złącze USB x2 Złącze zasilania (24 pinowe) x1 Złącze zasilania (4 pinowe) x1 Złącze Port szeregowy x1	Złącze napędu dyskietek x1 Złącze IDE x1 Złącze SATA x4 Złącze panela przedniego x1 Przednie złącze audio x1 Złącze wyjścia S/PDIF x1 Złącze główkowe wentylatora procesora x1 Złącze główkowe wentylatora systemowego x2 Złącze główkowe kasowania CMOS x1 Złącze USB x2 Złącze zasilania (24 pinowe) x1 Złącze zasilania (4 pinowe) x1 Złącze Port szeregowy x1	
Back Panel I/O	Klawiatura PS/2 x1 Mysz PS/2 x1 Port VGA x1 Port LAN x1 Port USB x4 Gniazdo audio x3 Port DVI x1	Klawiatura PS/2 x1 Mysz PS/2 x1 Port VGA x1 Port LAN x1 Port USB x4 Gniazdo audio x3 Port DVI x1	
Wymiary płyty	209 mm (S) X 244 mm (W)	209 mm (S) X 244 mm (W)	
Funkcje specjalne	Obsługa RAID 0 / 1 / 1+0	Obsługa RAID 0 / 1 / 1+0	
Obsługa systemu operacyjnego	Windows XP / Vista 32 / Vista 64 / 7 Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.	Windows XP / Vista 32 / Vista 64 / 7 Biostar zastrzega sobie prawo dodawania lub odwoływania obsługi dowolnego systemu operacyjnego bez powiadomienia.	

RUSSIAN

	TA780G3/TA760G3	TA785G3
CPU (центральный процессор)	Гнездо AM3 Процессоры AMD Athlon II / Phenom II Архитектура AMD 64 разрешать обработка данных на 32 и 64 бит Поддержка Hyper Transport 3.0 и Cool'n'Quiet (Максимальный ватт: 125W)	Гнездо AM3 Процессоры AMD Athlon II / Phenom II Архитектура AMD 64 разрешать обработка данных на 32 и 64 бит Поддержка Hyper Transport 3.0 и Cool'n'Quiet (Максимальный ватт: 125W)
FSB	Поддержка HyperTransport 3.0 с пропускной способностью до 5.2 GT/s	Поддержка HyperTransport 3.0 с пропускной способностью до 4.4 GT/s
Набор микросхем	AMD 780G / 760G AMD SB710	AMD 785G AMD SB710
Основная память	Слоты DDR3 DIMM x 2 Максимальная ёмкость памяти 8 ГБ Каждый модуль DIMM поддерживает 512МБ & 1ГБ/2ГБ/4ГБ DDR3 Модуль памяти с двухканальным режимом DDR3 Поддержка DDR3 800 / 1066 / 1333 Поддержка DDR3 1600 (OC) Не поддерживает зарегистрированные модули DIMM and ECC DIMM	Слоты DDR3 DIMM x 2 Максимальная ёмкость памяти 8 ГБ Каждый модуль DIMM поддерживает 512МБ & 1ГБ/2ГБ/4ГБ DDR3 Модуль памяти с двухканальным режимом DDR3 Поддержка DDR3 800 / 1066 / 1333 Поддержка DDR3 1600 (OC) Не поддерживает зарегистрированные модули DIMM and ECC DIMM
Super I/O	ITE 8718F Обеспечивает наиболее используемые действующие функциональные возможности Super I/O. Интерфейс с низким количеством выводов Инициативы по охране окружающей среды, Аппаратный монитор Функция ITE "Smart Guardian" (Интеллектуальная защита)	ITE 8718F Обеспечивает наиболее используемые действующие функциональные возможности Super I/O. Интерфейс с низким количеством выводов Инициативы по охране окружающей среды, Аппаратный монитор Функция ITE "Smart Guardian" (Интеллектуальная защита)
Графика	Встроенная в набор микросхем AMD 780G / 760G Максимальная совместно используемая видео память составляет 512 МБ Поддержка DX10/HDCP (780G ONLY)	Встроенная в набор микросхем AMD 785G Максимальная совместно используемая видео память составляет 512 МБ Поддержка DX10.1/HDCP
IDE	Встроенное устройство управления встроенными интерфейсами устройств Режим "хозяина" шины Ultra DMA 33 / 66 / 100 / 133 Поддержка режима PIO 0~4,	Встроенное устройство управления встроенными интерфейсами устройств Режим "хозяина" шины Ultra DMA 33 / 66 / 100 / 133 Поддержка режима PIO 0~4,
SATA	Встроенное последовательное устройство управления ATA скорость передачи данных до 3 гигабит/с. Соответствие спецификации SATA версия 2.0.	Встроенное последовательное устройство управления ATA скорость передачи данных до 3 гигабит/с. Соответствие спецификации SATA версия 2.0.

TA785G3/TA780G3/TA760G3

TA780G3/TA760G3			TA785G3		
Локальная сеть	Realtek RTL 8111DL		Realtek RTL 8111DL		
	Автоматическое согласование 10 / 100 / 1000 Мб/с		Автоматическое согласование 10 / 100 / 1000 Мб/с		
	Частичная / полная дуплексная способность		Частичная / полная дуплексная способность		
Звуковая поддержка жесткого диска	ALC662		ALC662		
	Звуковая поддержка High-Definition 5.1канальный звуковой выход		Звуковая поддержка High-Definition 5.1канальный звуковой выход		
Слоты	Слот PCI Express Gen2 x16	x1	Слот PCI Express Gen2 x16		
	Слот PCI	x2	Слот PCI		
Встроенный разъем	Разъем HГМД	x1	Разъем HГМД		
	Разъем IDE	x1	Разъем IDE		
	Разъем SATA	x4	Разъем SATA		
	Разъем на лицевой панели	x1	Разъем на лицевой панели		
	Входной звуковой разъем	x1	Входной звуковой разъем		
	Разъем вывода для S/PDIF	x1	Разъем вывода для S/PDIF		
	Контактирующее приспособление вентилятора центрального процессора		Контактирующее приспособление вентилятора центрального процессора		
		x1			
	Контактирующее приспособление вентилятора системы		Контактирующее приспособление вентилятора системы		
		x2			
	Открытое контактирующее приспособление CMOS		Открытое контактирующее приспособление CMOS		
		x1			
	USB-разъем		USB-разъем		
		x2			
Задняя панель средств ввода-вывода	Разъем питания (24 вывод)	x1	Разъем питания (24 вывод)		
	Разъем питания (4 вывод)	x1	Разъем питания (4 вывод)		
	Разъем Последовательный порт	x1	Разъем Последовательный порт		
	Клавиатура PS/2	x1	Клавиатура PS/2		
	Мышь PS/2	x1	Мышь PS/2		
	Порт VGA	x1	Порт VGA		
Размер панели	Порт LAN	x1	Порт LAN		
	USB-порт	x4	USB-порт		
	Гнездо для подключения наушников	x3	Гнездо для подключения наушников		
Специальные технические характеристики	Порт DVI	x1	Порт DVI		
	Поддержка RAID 0 / 1 / 1+0		Поддержка RAID 0 / 1 / 1+0		
Поддержка OS	Windows XP / Vista 32 / Vista 64 / 7		Windows XP / Vista 32 / Vista 64 / 7		
	Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.		Biostar сохраняет за собой право добавлять или удалять средства обеспечения для OS с или без предварительного уведомления.		

ARABIC

TA785G3	TA780G3/TA760G3	
AM3 مقبس AMD Athlon / Athlon II / Sempron / Phenom / Phenom II إجراء العمليات الحسابية بسرعة 32 و 64 بت AMD 64 تمكين تقنية Cool'n'Quiet و Hyper Transport 3.0 دعم تقنية (125: قصوى واط)	AM3 مقبس AMD Athlon / Athlon II / Sempron / Phenom / Phenom II إجراء العمليات الحسابية بسرعة 32 و 64 بت AMD 64 تمكين تقنية Cool'n'Quiet و Hyper Transport 3.0 دعم تقنية (125: قصوى واط)	وحدة المعالجة المركزية
4.4 GT/s تردد يصل إلى 3.0 HyperTransport دعم تقنية	5.2 GT/s تردد يصل إلى 3.0 HyperTransport دعم تقنية	النافذ الأممي الجانبي
AMD 785G AMD SB710	AMD 780G / 760G AMD SB710	مجموعة الشرائح
ITE 8718F الأكثر استخداماً. Super I/O يوفر وظيفة Low Pin Count Interface دعم تقنية وسائل التحكم في البيئة: مراقب لمعرفة حالة الأجهزة ITE من "Smart Guardian" وظيفة	ITE 8718F الأكثر استخداماً. Super I/O يوفر وظيفة Low Pin Count Interface دعم تقنية وسائل التحكم في البيئة: مراقب لمعرفة حالة الأجهزة ITE من "Smart Guardian" وظيفة	Super I/O
عدد 2 قناة DDR3 DIMM سعة ذاكرة قصوى 8 جيجا بايت ميجا 256/512 سعة DDR3 دعم ذاكرة من نوع DIMM دعم كل قناة بايت 1 و 2 و 4 جيجا بايت مزودة لقناة DDR3 وحدة ذاكرة سعت 1333 / 1066 / 800 ميجا بايت DDR3 دعم الذاكرة من نوع سعت 1600 (OC) ميجا بايت DDR3 دعم الذاكرة من نوع ECC وتلك التي لا تتوافق مع DIMM لا تدعم رقائق الذاكرة	عدد 2 قناة DDR3 DIMM سعة ذاكرة قصوى 8 جيجا بايت ميجا 256/512 سعة DDR3 دعم ذاكرة من نوع DIMM دعم كل قناة بايت 1 و 2 و 4 جيجا بايت مزودة لقناة DDR3 وحدة ذاكرة سعت 1333 / 1066 / 800 ميجا بايت DDR3 دعم الذاكرة من نوع سعت 1600 (OC) ميجا بايت DDR3 دعم الذاكرة من نوع ECC وتلك التي لا تتوافق مع DIMM لا تدعم رقائق الذاكرة	الذاكرة الرئيسية
AMD 785G منمجة في رقائق ميجا بايت 512 أقصى سعة لذاكرة الفيديو المشتركة DX10.1/HDCP دعم تقنية	AMD 780G / 760G منمجة في رقائق ميجا بايت 512 أقصى سعة لذاكرة الفيديو المشتركة HDCP (780G only)/DX10 دعم تقنية	بطاقة الرسومات
متكامل IDE متحكم وضع رئيسي 133 / 100 / 66 / 33 Ultra DMA نقل بتقنية PIO Mode 0 ~ 4 دعم وضع	متكامل IDE متحكم وضع رئيسي 133 / 100 / 66 / 33 Ultra DMA نقل بتقنية PIO Mode 0 ~ 4 دعم وضع	منفذ IDE
متكامل Serial ATA متحكم جيجابت/ثانية. 3.0 نقل البيانات بسرعة تصل إلى 2.0 الإصدار SATA مطابقة لمواصفات	متكامل Serial ATA متحكم جيجابت/ثانية. 3.0 نقل البيانات بسرعة تصل إلى 2.0 الإصدار SATA مطابقة لمواصفات	SATA

TA785G3/TA780G3/TA760G3

TA785G3		TA780G3/TA760G3	
Realtek RTL 8111DL	تفاوض تلقائي 100/10 ميجا بايت / ثانية و1 جيجا بت/ثانية إمكانية النقل المزدوج الكامل/النصفي	Realtek RTL 8111DL	تفاوض تلقائي 100/10 ميجا بايت / ثانية و1 جيجا بت/ثانية إمكانية النقل المزدوج الكامل/النصفي
ALC662	قوات لخرج الصوت 5.1 تدعم تقنية الصوت عالي التعريف من	ALC662	قوات لخرج الصوت 5.1 تدعم تقنية الصوت عالي التعريف من
قناة PCI Express Gen2 x16 عدد 1	قناة PCI عدد2	قناة PCI Express Gen2 x16 عدد 1	قناة PCI عدد2
منفذ محرك أقراص مرنة عدد 1	منفذ IDE عدد 1	منفذ محرك أقراص مرنة عدد 1	منفذ IDE عدد 1
منفذ SATA عدد4	منفذ SATA عدد4	منفذ SATA عدد4	منفذ SATA عدد4
منفذ اللوحة الأممية عدد 1	منفذ الصوت الأممي عدد 1	منفذ اللوحة الأممية عدد 1	منفذ الصوت الأممي عدد 1
منفذ خرج S/PDIF عدد 1	وصلة مروحة وحدة المعالجة المركزية عدد 1	منفذ خرج S/PDIF عدد 1	وصلة مروحة وحدة المعالجة المركزية عدد 1
وصلة مروحة النظام عدد 2	وصلة مسح CMOS عدد 1	وصلة مروحة النظام عدد 2	وصلة مسح CMOS عدد 1
منفذ USB عدد 2	منفذ توصيل الطاقة (24دبوس) عدد 1	منفذ USB عدد 2	منفذ توصيل الطاقة (24دبوس) عدد 1
منفذ توصيل الطاقة (4دبوس) عدد 1	منفذ تسلسلي عدد 1	منفذ توصيل الطاقة (4دبوس) عدد 1	منفذ تسلسلي عدد 1
لوحة مفاتيح PS/2 عدد 1	ملوس PS/2 عدد 1	لوحة مفاتيح PS/2 عدد 1	ملوس PS/2 عدد 1
منفذ VGA عدد 1	منفذ شبكة اتصال محلية عدد 1	منفذ VGA عدد 1	منفذ شبكة اتصال محلية عدد 1
منافذ USB عدد4	مقيس صوت عدد3	منافذ USB عدد4	مقيس صوت عدد3
منافذ DVI عدد 1		منافذ DVI عدد 1	
حجم اللوحة 209 مم (عرض) X 244 مم (ارتفاع)		حجم اللوحة 209 مم (عرض) X 244 مم (ارتفاع)	
RAID 0 / 1 / 1+0 تدعم تقنية		RAID 0 / 1 / 1+0 تدعم تقنية	
Windows XP / Vista 32 / Vista 64 / 7	يحققها في إضافة أو إزالة الدعم لأي نظام تشغيل بإخطار أو Biostar يحتفظ بدون إخطار .	Windows XP / Vista 32 / Vista 64 / 7	يحققها في إضافة أو إزالة الدعم لأي نظام تشغيل بإخطار أو Biostar يحتفظ بدون إخطار .

JAPANESE

	TA780G3/TA760G3	TA785G3
CPU	Socket AM3 AMD Athlon II / Phenom II プロセッサ AMD 64アーキテクチャでは、32ビットと64ビット計算が可能です ハイパートランスポート3.0とクールアンドクワイアットをサポートします (最高のワット: 125W)	Socket AM3 AMD Athlon II / Phenom II プロセッサ AMD 64アーキテクチャでは、32ビットと64ビット計算が可能です ハイパートランスポート3.0とクールアンドクワイアットをサポートします (最高のワット: 125W)
FSB	5.2 GT/sのバンド幅までハイパートランスポート3.0をサポートします	4.4 GT/sのバンド幅までハイパートランスポート3.0をサポートします
チップセット	AMD 780G / 760G AMD SB710	AMD 785G AMD SB710
メインメモリ	DDR3 DIMMスロット x 2 最大メモリ容量8GB 各DIMMは 512MB & 1GB/2GB/4GB DDR3をサポート デュアル チャンネルモードDDR3 メモリモジュール DDR3 800 / 1066 / 1333 をサポート DDR3 1600 (OC) をサポート 登録済みDIMMとECC DIMMはサポートされません	DDR3 DIMMスロット x 2 最大メモリ容量8GB 各DIMMは 512MB & 1GB/2GB/4GB DDR3をサポート デュアル チャンネルモードDDR3 メモリモジュール DDR3 800 / 1066 / 1333 をサポート DDR3 1600 (OC) をサポート 登録済みDIMMとECC DIMMはサポートされません
Super I/O	ITE 8718F もともと一般に使用されるレガシーSuper I/O機能を採用しています。 低ピンカウントインターフェイス 環境コントロールイニシアチブ、 H/Wモニター ITEの「スマートガーディアン」機能	ITE 8718F もともと一般に使用されるレガシーSuper I/O機能を採用しています。 低ピンカウントインターフェイス 環境コントロールイニシアチブ、 H/Wモニター ITEの「スマートガーディアン」機能
グラフィックス	AMD 780G / 760Gチップセットに統合 最大の共有ビデオメモリは512MBです DX10/HDPC (780G ONLY) のサポート	AMD 785Gチップセットに統合 最大の共有ビデオメモリは512MBです DX10.1/HDPC のサポート
IDE	統合IDEコントローラ Ultra DMA 33 / 66 / 100 / 133バスマスタモード PIO Mode 0~4のサポート、	統合IDEコントローラ Ultra DMA 33 / 66 / 100 / 133バスマスタモード PIO Mode 0~4のサポート、
SATA	統合シリアルATAコントローラ 最高3Gb/秒のデータ転送速度 SATAバージョン2.0仕様に準拠。	統合シリアルATAコントローラ 最高3Gb/秒のデータ転送速度 SATAバージョン2.0仕様に準拠。

TA785G3/TA780G3/TA760G3

TA780G3/TA760G3			TA785G3		
LAN	Realtek RTL 8111DL 10 / 100 / 1000 Mb/秒のオートネゴシエーション 半/全二重機能		Realtek RTL 8111DL 10 / 100 / 1000 Mb/秒のオートネゴシエーション 半/全二重機能		
HDオーディオのサポート	ALC662 5.1チャンネルオーディオアウト ハイデフィニションオーディオのサポート		ALC662 5.1チャンネルオーディオアウト ハイデフィニションオーディオのサポート		
スロット	PCI Express Gen2 x16スロット	x1	PCI Express Gen2 x16スロット	x1	
	PCIスロット	x2	PCIスロット	x2	
オンボードコネクタ	フロッピーコネクタ	x1	フロッピーコネクタ	x1	
	IDEコネクタ	x1	IDEコネクタ	x1	
	SATAコネクタ	x4	SATAコネクタ	x4	
	フロントパネルコネクタ	x1	フロントパネルコネクタ	x1	
	フロントオーディオコネクタ	x1	フロントオーディオコネクタ	x1	
	S/PDIFアウトコネクタ	x1	S/PDIFアウトコネクタ	x1	
	CPUファンヘッダ	x1	CPUファンヘッダ	x1	
	システムファンヘッダ	x2	システムファンヘッダ	x2	
	CMOSクリアヘッダ	x1	CMOSクリアヘッダ	x1	
	USBコネクタ	x2	USBコネクタ	x2	
	電源コネクタ(24ピン)	x1	電源コネクタ(24ピン)	x1	
	電源コネクタ(4ピン)	x1	電源コネクタ(4ピン)	x1	
	シリアルポートコネクタ	x1	シリアルポートコネクタ	x1	
背面パネル I/O	PS/2キーボード	x1	PS/2キーボード	x1	
	PS/2マウス	x1	PS/2マウス	x1	
	VGAポート	x1	VGAポート	x1	
	LANポート	x1	LANポート	x1	
	USBポート	x4	USBポート	x4	
	オーディオジャック	x3	オーディオジャック	x3	
	DVIポート	x1	DVIポート	x1	
ボードサイズ	209 mm (幅) X 244 mm (高さ)		209 mm (幅) X 244 mm (高さ)		
特殊機能	RAID 0 / 1 / 1+0 のサポート		RAID 0 / 1 / 1+0 のサポート		
OSサポート	Windows XP / Vista 32 / Vista 64 / 7 Biostarは事前のサポートなしにOSサポートを追加または削除する権利を留保します。		Windows XP / Vista 32 / Vista 64 / 7 Biostarは事前のサポートなしにOSサポートを追加または削除する権利を留保します。		

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